Proposal to Prepare

Environmental Impact Report





Conditional Use Permit/Reclamation Plan

Submitted To:

County of San Luis Obispo

Department of Planning and Building

976 Osos Street, Room 300 San Luis Obispo, California 93408 Attn: Mr. John Nall, Principal Environmental Specialist Submitted By:



Envicom Corporation

28328 Agoura Road Agoura Hills, CA 91301 Contact: Brian McCarthy, Sr. Project Manager

In association with:

Zitney & Associates | Hatch Mott Macdonald | Balance Hydrologics, Inc. | BCR Consulting | Giroux & Associates Wilson Geosciences, Inc. | Interacta, Inc.

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for the

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BALANCE HYDROLOGICS, INC.
BCR CONSULTING
GIROUX & ASSOCIATES
WILSON GEOSCIENCES, INC.
INTERACTA, INC.

May 20, 2011

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I. INTRODUCTION

Envicom Corporation is pleased to provide this proposal to prepare an Environmental Impact Report (EIR) for the Oster (Las Pilitas Quarry) Conditional Use Permit/Reclamation Plan. This proposal responds to the County of San Luis Obispo's Request for Proposal (RFP), reissued on April 29, 2011.

Envicom Corporation has extensive applicable experience in preparing environmental documents for mining projects within the region, other development projects within San Luis Obispo County, and other projects involving similar issues. Our insight and knowledge of the issues specific to this project are reflected in the discussion of project understanding and approach, below, and throughout the analysis methodology provided in this proposal.

We have dedicated to this project senior project management staff who have an excellent reputation for their commitment to serving our clients and a proven track record of providing high quality documents that meet lead agencies' goals on time and within budget. Envicom Corporation has a strong reputation among lead agencies and other clients for the objectivity, thoroughness, and legal sufficiency of our work products; all of Envicom Corporation's EIRs that have been tested by courts of law have been held as legally sufficient.

Our subconsultant team provides the County with top-notch, well-respected technical experts with relevant experience. We are pleased to add Greg Zitney of Zitney & Associates to our team. As described further in this proposal, Mr. Zitney is an independent objective expert on CEQA and SMARA who is highly respected within regulatory and mining communities. He brings nearly forty years of applicable experience to the team and will assist in: supporting the County throughout the process; assuring the adequacy of the document; reviewing the project description, alternatives, and mitigation measures from a mining feasibility, as well as a County and SMARA regulatory perspective. Mr. Zitney will also lend his CEQA and mining expertise at public hearings to address the community's concerns.

Other subconsultants and their respective technical study issue areas are:

- Hatch Mott MacDonald (HMM) Transportation/Circulation
- Balance Hydrologics, Inc. Hydrology, Water Quality and Supply
- BCR Consulting Cultural Resources
- Giroux & Associates Air Quality and Noise
- Wilson Geosciences, Inc. Geology and Soils
- Interacta, Inc. Visual Simulations



We look forward to assisting the County in preparing an EIR that will provide County staff, decision-makers, and the public with an environmental document that clearly and completely assesses all relevant issues; provides feasible, effective, and enforceable mitigation; and explores a reasonable range of alternatives that would avoid or reduce the project's impacts to the extent feasible.

PROJECT UNDERSTANDING AND APPROACH

Our understanding of the project and our proposed approach are based on information provided in the RFP and its attachments, discussions with County staff regarding the RFP, and our familiarity with CEQA analyses for similar projects. To date, the County has prepared an Initial Study and Notice of Preparation (NOP) that was distributed for agency and public review and comment in July 2010.

Project Description

The proposed project [also referred to herein as the Oster (Las Pilitas Quarry) Mining Project] would permit a new aggregate quarry for the mining of decomposed granite and granite rock and would also include asphalt and concrete recycling operations. The project site is located at 6660 Calf Canyon Way (north of Highway 58), east of the Salinas River Bridge, and 0.25 mile west of the Parkhill Road intersection, east of the community of Santa Margarita. The project site is within the Las Pilitas Planning area within the Energy Extractive 1 Combining Designation Overlay. The site includes two parcels (APNs 070-141-070 and 071), a 203-acre area in total, within which 60 acres would be disturbed by mining-related activities. The 60 acres occur predominantly in the center and near the northerly boundary of the 203-acre site. The project would be permitted over a 30-year timeframe and extract approximately 13,068,000 tons of aggregate, allowing a maximum annual extraction of 500,000 tons.

Mining would occur in a series of four phases: Phase "1A" and "1B," "2A" and "2B," "3A" and "3B," and the "Final Phase." Each of these phases would be conducted pursuant to a detailed Phasing Plan and would include access, detention basins, benching of finished mined slopes, and revegetation as part of reclamation. Mining would result in side hill excavations that contour around a centered "floor" area. Finished mined slopes would be cut at 1.5:1 (1.5 feet horizontal to 1 foot vertical) with 25-foot wide benches created every 50 vertical feet. The applicant has provided detailed engineering plans for key aspects of the project, which include the Entrance Road Plan, Mining Plans for all four phases, Miscellaneous Details, Water Pollution Control Plan, Tree Plan, and Detention Basins plans.

Mining Process and Recycling

The typical mining method would involve the clearing of vegetation and topsoil overburden from an area to be mined. The topsoil overburden would be stockpiled on-site for use in post-mining reclamation. The granite aggregate material would



then be excavated with a wheel loader, hydraulic excavator, and/or bulldozer. The mined material would be sorted by size and stockpiled on-site for sale. In some instances, the aggregate may be too consolidated to be excavated through use of heavy equipment and would require blasting to loosen the material. Blasting would include drilling into the aggregate material and placing explosives within the drilled holes before they are detonated. A California Licensed Blaster would conduct the blasting activity. Once the aggregate is sufficiently loosened it would then be excavated, sorted, and stockpiled. From stockpiles, the granite material would be loaded into haul trucks using a front-end loader for smaller material and a hydraulic excavator to load larger rocks. Once loaded, trucks would proceed to the scale for weighing and ticketing before leaving the site. A portion of high quality material would be sold for use in manufacturing of building materials and specialty applications. The remainder of the material would be sold for commercial applications that do not require as high quality specifications, such as road base.

The project would include recycling of concrete and asphalt. The site would accept delivery of rock, concrete, and asphalt from construction/demolition projects. Deliveries would be inspected to ensure they are free of waste, such as oil, plastics, steel pipe, wood or other waste debris. The concrete and asphalt materials would be stockpiled and processed with either a fixed screening/crushing plant or stockpiled until such time as a portable screening and crushing plant would be brought onsite on a temporary basis to process the material. Recycled materials would be for commercial sale for lower quality specification uses, such as road base. The recycling operations would be initiated after five years of inaugurating the mining operations.

The project would operate on weekdays between the hours of 6:00 a.m. and 5:00 p.m. No weekend operations or nighttime lighting is proposed at this time.¹

Facilities

The aggregate operations would be supported with ancillary uses, including a truck scale and portable office. The office would be used to perform administrative functions, receiving/processing orders, and for weighing trucks and issuing tickets as they exit the site.

Reclamation

In accordance with the Surface Mining And Reclamation Act (SMARA), the project includes a Reclamation Plan to reclaim the site to an open space end use, which would involve stabilizing finished slopes and revegetating with native plant species. Mining and reclamation will be conducted concurrently as finished slopes are rearched. Slopes would be finished in the upper portions of the mining area first and contoured and benched according to the mining plan. Benches would be sloped toward the hill and ditches would be put in place to control surface runoff and erosion. Stockpiled overburden would be placed as topsoil over the finished

Section 8. Noise of the Initial Study, provides hours of operations of 7 a.m. to 9 p.m. on weekdays and 7 a.m. to 6 p.m. on weekends with blasting (as needed) between the hours of 7 a.m. and 6 p.m. Hours of operations to be confirmed with the County.



slopes prior to revegetation. Reclamation would be on-going during operations to minimize the amount of disturbance at any given time throughout the life of the project, and conducted in sequence with the Phased Mining Plan. The applicant has provided a Revegetation Plan (Phases 1A, 1B, 2A, 2B, 3A and 3B) that details the sequence of areas to be revegetated over the life of the project. Also, reclamation success, i.e. establishment of stable slopes and vegetation, would be required to be monitored until the appropriate success criteria, to be outlined in the Reclamation Plan, has been met. The Plan would be approved by the County and prepared in consultation with the California Department of Conservation Office of Mine Reclamation (OMR), which administers SMARA.

Key Issues and Approach

Based on our review of available materials, we have obtained an understanding of the key issues associated with the Oster Mining Project and formulated an approach to creating a concise and legally sound project EIR. This process included an initial review of the scoping meeting and Notice of Preparation (NOP) letters to ascertain the relevant concerns of the community and trustee agencies. We've followed the issues raised by the public to date. We anticipate that the major issues for this project will center around truck traffic generation on the proposed haul route along Highway 58 through the community of Santa Margarita to Highway 101. In addition to traffic congestion issues, the proposed project's generation of truck trips along this route has raised concerns regarding roadway suitability, safety, noise, and air quality along the proposed haul route. We will ensure that the analysis of each issue area considers potential impacts on the project site and its immediate surroundings, as well as along the proposed truck route, with a focus on impacts to sensitive uses. We understand that the enforcement of mitigation measures is key to the measures' effectiveness and will take this into consideration when developing mitigation measures. We will assure that the document provides sufficient explanation of mitigation measures to assure that they are clear, they can be successfully implemented, and their effectiveness measured and monitored. Finally, we have included an alternative that will explore the range of possible haul routes, in order to identify whether or not there exists a feasible, practical route that would avoid or minimize the project's impacts from trucking. If no such route exists, this will be disclosed in the EIR with support for this conclusion.

The alternatives analysis will be a critical component of the document as it will explore the potential ways in which the project could be revised to avoid or reduce impacts. It also will assist decision-makers and the public in understanding the tradeoffs inherent in varying certain aspects of the project. The alternatives will be defined once the project's significant impacts are identified, so that that they can be tailored to avoid these impacts. Based on our understanding of the project and past experience, we understand the project variables that will come into play and anticipate the types of alternatives that will likely be considered as described in the scope of work below. However, these will be further refined as the impacts are more clearly defined.



Overall, our approach in preparing the EIR is designed to (1) fully meet CEQA requirements and agency needs as well as instill community confidence in the EIR process by providing thorough, objective analysis;, (2) present a clear, objective, and user-friendly document, (3) assist County decision-makers in understanding the environmental ramifications of the proposed project and a full range of alternatives, (4) ensure an efficient, well-coordinated process, and (5) incorporate prior studies for this property to the extent as approriate; but, ensure that all supplemental studies, environmental analysis and conclusions relative to project impacts reflect Envicom and Envicom's subconsultants' independent judgement.

Key to assuring an efficient, focused process is a clear definition of the proposed project to be analyzed in the body of the EIR. We will review each aspect of the proposed mining project thoroughly, including operational characteristics such as hours of operation (for both mining and trucking activity), anticipated haul routes, and activities to occur in connection with the mining operations. We would anticipate developing a much more detailed project description than was provided with the Initial Study. We will also review the project's physical characteristics set forth in the proposed mining plan and confirm the project maps. It will also be important to establish clear reclamation procedures and success criteria in consultation with the County and Office of Mine Reclamation to minimize environmental impacts through the life of the project, but that are also feasible for the mining operation.

Peer review will be an important initial step. To the extent feasible we will make efficient use of prior technical studies prepared for the project on behalf of the applicant, and provide updated and/or supplemental data and analysis as necessary to support an adequate and objective CEQA document. We have conducted a preliminary review of these studies for purposes of this proposal. In our scope of work provided in Section III, we have made recommendations regarding the use of these technical reports and additional work that would be necessary for the EIR.

Coordination

Envicom Corporation is accustomed to working as an extension of lead agency staff. As principal contractor, Envicom Corporation will manage the project EIR and serve as the central point of contact for the County. We will be responsible for developing an EIR strategy in concert with the County and assuring that all staff and subconsultants understand and implement this strategy consistently. Envicom Corporation will be responsible for all editing and assembly of deliverables to the County. We will conduct an internal review of work products prior to delivery to the County to assure the preparation of a thorough, accurate, and easily understood document.



Communication

Communication between Envicom Corporation and the County will provide a common understanding of proposed work product expectations before administrative draft documents are submitted for County review. Communication will occur on several levels:

Day-to-day communication

E-mail will be the preferred method for communication between the Project Manager and the County Project Manager on day-to-day matters, although telephone calls will be used to address issues that require greater discussion. All written communications will be maintained as a record of correspondence.

Project Meetings

Envicom will attend a kick-off meeting to finalize the scope of work and approach, and decide upon any options or alternatives to the work scope. Sub-consultants will also be included as necessary to discuss specific work tasks.

Formal progress meetings will be held at critical points in the process to discuss key issues and provide progress reports. Notes of the meetings will be produced within one week, which will summarize and record decisions made and actions required. These notes will be circulated to all relevant consulting team members and County or Agency staff.

Ad-hoc Meetings

Ad-hoc meetings may involve scheduled telephone communications with the County Project Manager and other agency staff as needed. These will be arranged to address specific technical, contractual, or other issues as they arise. Participation at these meetings will be dependent on the issue under discussion. Notes of these will be taken and decisions and actions recorded.

Deliverables

The contract requires the completion of a significant number of deliverables. Coordination will be provided with the County project manager to anticipate deliverables before their due date. The Project Manager will be responsible for ensuring that these deliverables reach the appropriate reviewing authorities.

Progress Statements

All in-house team and sub-consultants will keep accurate accounts of their time and progress on each project task. These accounts will be used to compile monthly statements that will be sent the County Project Manager. The County Project Manager will be kept current on progress made towards milestones with associated costs and work costs remaining.

Quality Assurance

Envicom has an established reputation for providing quality work products. Products are prepared in constant coordination with the Project Manager, and the Director of Environmental Services provides a rigorous overall quality assurance review before clearance is given to deliver it to the County.

OBJECTIVITY

Envicom Corporation certifies that our firm and our subcontractors have the capacity to submit a neutral and unbiased environmental document.

II. QUALIFICATIONS

FIRM CAPABILITIES/HISTORY

Envicom Corporation is an independent consulting firm that has served California with award winning environmental, biological and land planning consultation since 1972. As experts in the implementation of the California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), Federal Clean Water Act, and other Federal, State, and local environmental laws, Envicom Corporation has successfully completed thousands of projects.

Among the services Envicom Corporation offers are:

- Environmental Analysis CEQA/NEPA compliance;
- Biological Studies Full range of wildlife and vegetation investigations;
- Land Planning Environmental Constraints/Development Suitability Analysis;
- Permitting & Entitlement Federal and State wetland, streambed alteration, and endangered species permits;
- Environmental Permit Compliance Post project approval compliance with permit and CEQA conditions;
- Surface Mining and Reclamation Act (SMARA) compliance;
- Geographic Information Systems Digital mapping, spatial analysis, terrain modeling and CAD compatibility; and
- Graphic Imaging Visual impact analysis and full service design and presentation capabilities.

Equipped with a team of in-house and closely affiliated technical experts, Envicom Corporation provides a multitude of environmental analysis and entitlement services, including permitting, mapping, report preparation, biological surveying, and monitoring services. Our expanded team includes highly qualified environmental planners, cartographers, ecologists and biological resources specialists (including arborists, local plant identification specialists, protocol survey personnel, delineation personnel), geologists, cultural resource specialists (qualified to evaluate archaeology, architectural historic resources, and paleontology including Native American consultation), noise and air quality specialists, and traffic engineers. Additionally, we provide expert witness testimony on a number of environmental topics.

Throughout its history, Envicom Corporation has consistently shown superior capability in preparing environmental compliance documents consistent with the standards of the most discriminating clients, including major California cities and counties, large landholders, and the top land use law firms. Summary points of our qualifications are as follows:



- thousands of environmental documents since our founding in 1972, involving a wide range of projects, issues, and jurisdictions. Much of this work has been performed in accordance with the procedural and substantive requirements of CEQA and NEPA. These reports have addressed the environmental consequences of projects in both the private and public sectors. Our list of clients includes public agencies on the Federal, State, and local levels, private industry, regulated utilities, political and public law organizations, special districts, universities, hospitals, religious institutions and homeowners groups. EIRs prepared by Envicom Corporation have consistently been found to fully satisfy CEQA requirements under court and judicial review. Envicom Corporation believes that its excellent track record is testimony to the skills and experience of its staff.
- Commitment to Sound Judgment & Plain Language Envicom Corporation has consistently produced environmental documents that are technically proficient and are repeatedly recognized for their accessibility to the public-at-large and their usefulness to decision-makers and responsible public agencies. To this end, our documents are written in language and formats that are commonly understood by their intended readers. Graphics and "matrix style" charts are used extensively to illustrate project characteristics and to summarize important analysis conclusions.
- Interactive Consulting The firm has been recognized for advancing the 'state-of-the-art' for environmental analysis performed for development projects. Rather than providing 'after-the-fact' evaluation of a finalized plan, Envicom provides preliminary environmental advice throughout the work program, allowing valuable input into the project design, as well as identifying project alternatives and mitigation measures. By providing this input during the design phase, concerned planners, developers, and the community clearly understand the options under consideration and potential trade-offs. This facilitates the selection of preferred project components and identification of reasonable and effective mitigation measures.
- Timely and Cost Effective Delivery of Products Envicom Corporation
 has consistently demonstrated our ability to complete work products in
 highly constrained time periods. The firm has successfully completed and
 ensured the certification of a number of environmental assessments that
 were subject to critical financial or legal deadlines.
- Reputation Among Approving Agencies Over the years, Envicom Corporation has maintained a close working relationship with many local City, County, and Federal and State Agencies, including the Army Corps of Engineers, California Department of Fish & Game, Regional Water Quality Control Board, and most Southern California Counties and constituent cities.

Envicom Corporation has long and varied experience with the preparation of environmental reports for mineral extraction projects that include assessments of environmental constraints of sites proposed for mining and operations impacts and



potential future expansions of mineral extraction projects. Projects undertaken have ranged from geographically remote rural locations to major urban land landscapes.

Environmental studies that express the focus and range of the mineral extraction, transportation, and reclamation projects undertaken by Envicom Corporation up to the present include:

- Evaluation of sustainable sand and gravel extraction from the Santa Clara River (Ventura County)
- Grimes Canyon sand and gravel mining expansions to 600 acres (Grimes Rock, Inc., Wayne J. Sand & Gravel, Best Rock Products Corporation) and truck traffic impacts to rural communities
- Sakaida & Sons surface mining project (Foothills of San Gabriel Mountains in Los Angeles County)
- Geothermal energy development feasibility (Mono County)
- Enhancement of petroleum recovery from declining fields (Kern, Santa Barbara, San Luis Obispo Counties)
- Petroleum product transportation pipelines (Mariposa, Sisquoc, Celeron, Southern Pacific Pipeline Company)
- Decommissioning and remediation of refinery and tank farm facilities (San Luis Obispo, Santa Clarita, Baldwin Hills, Torrance)
- Development of energy facilities siting and management planning for the Nipomo and Guadalupe Dunes (San Luis Obispo and Santa Barbara Counties)

In particular, our recent work in preparing three EIRs for three mining CUPs along Grimes Canyon Road is particularly relevant to the Oster Mining Project. Envicom Corporation lead a highly organized outreach effort to address community concerns surrounding additional heavy truck traffic on a rural and winding State Route (SR23), which passes through two small but developing communities. The residents of these communities had concerns that were very similar to those expressed by the local community in response to the Oster Mining Project NOP.

Envicom Corporation has a long and valued history in environmental assessment in San Luis Obispo County, including prior evaluations of the Oster Mining Project site. Envicom Corporation studied impacts to resources located on the Oster property and several other properties located along Highway 58 caused by installation of a 54-inch diameter Coastal Branch water pipeline. Maps illustrating slope constraint conditions, biological conditions, and site visibility of the Oster property as seen from Highway 58, previously prepared by Envicom Corporation are shown in **Figure 1**.



Our other work in the project area includes the preparation of an Environmental Constraints Analysis of the Santa Margarita Ranch (March 1994) for the County of San Luis Obispo (Division of Environmental Review, Department of Planning and Building). The analysis of environmental constraints on the ranch included evaluations of constraints to the potential development related to the generation of fugitive dust, noise and truck traffic associated with surface mining activities and an associated asphalt batch plant located adjacent to the northeast boundary of the ranch near the west bank of the Salinas River.

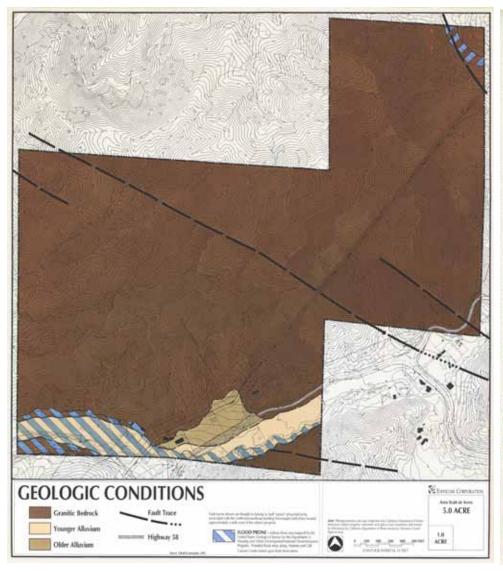
In addition to our thorough understanding of the environmental constraints in the area, Envicom understands the importance of maintaining access to locally important sources of mineral resources, such as granite, to serve the local market and the intent of the County's General Plan to preserve access to these resources through the Energy Extractive 1 Overlay land designations. To that end, the analysis of the No Project alternative will be an important component in the EIR in that it will assess and convey to the public and decision-makers the environmental considerations associated with not developing this additional source of material.

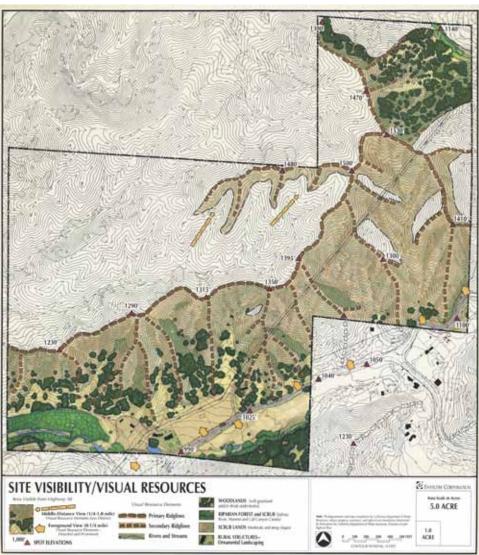
A summary of the qualifications of the key personnel on our subconsultant team are provided in Section IV below, with more detailed qualifications for the subconsultant firms provided in Appendix A.

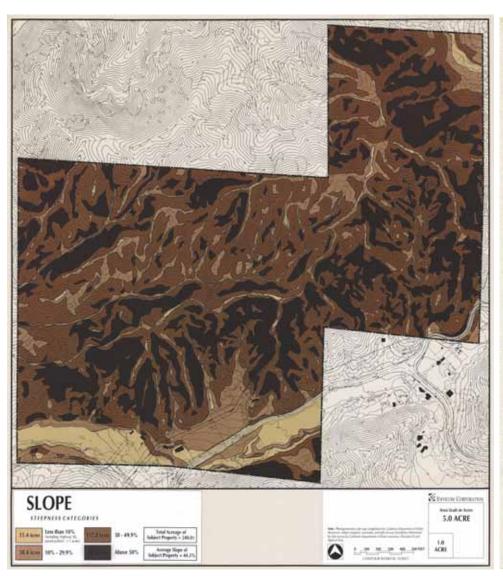
ORGANIZATIONAL STRUCTURE AND TOP MANAGEMENT

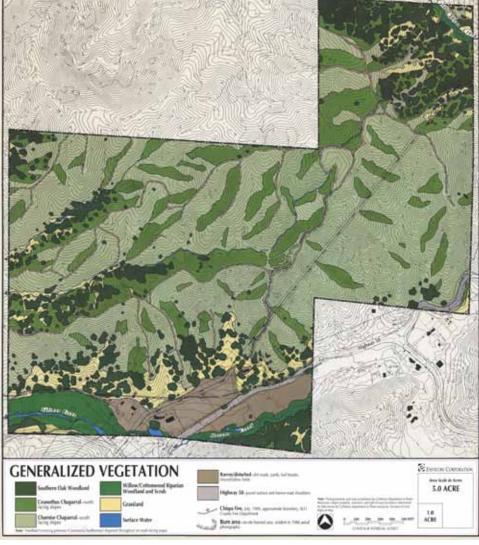
Incorporated in California, Envicom Corporation is a privately held business founded by Mr. Joseph G. Johns, President. Senior management includes: Mr. Primo Tapia, Vice President; Mr. Travis Cullen, Chief Operating Officer; and Ms. Lisa Ballin, Director of Environmental Services. The company's tax identification number is 95-2802086.











III. References

Listed below are several clients, public agency reviewers, and professional colleagues with whom Envicom Corporation has established a strong working relationship. We urge you to call any of the persons listed below for details regarding Envicom Corporation's professional abilities and integrity.

Envicom Corporation References

Mr. Scott Ellison County of Ventura Planning Division 800 South Victoria Street, L#1740 Ventura, California 93009 805/654-2495	Mary Meyer, Plant Ecologist-Region 5 California Department of Fish and Game 1429 Foothill Road Ojai, California 93003 805/640-8019
Mr. William Charles Brooks Tapo Rock & Sand Products, Inc. 5141 Tapo Canyon Road Simi Valley, California 93063 805/526-2899 805/527-2584	Dan Preece, Executive Officer Resource Conservation District of the Santa Monica Mountains 122 N. Topanga Canyon Boulevard Topanga, CA 90290 818/582-2373
Mr. Don Sakaida Sakaida & Sons 6938 Amigo Avenue Reseda, California 91335 818/881-5257	Jamie Jackson, Environmental Scientist-Region 5 California Department of Fish and Game PO Box 92890 Pasadena, California 91109 626/296-3430
Mr. Rob Duboux, Senior Civil Engineer City of Malibu 23815 Stuart Ranch Road Malibu, California 90265 310/456-2489	Mr. Phil Phillips, Esq.,CAO Pepperdine University 24255 Pacific Coast Highway Malibu, California 92063 310/456-4551
Ms. Pauline Lewicki Dr. Robert Manford City of Los Angeles Community Redevelopment Agency 354 South Spring Street, Suite 700 Los Angeles, CA 90013 213/977-1912	Loren Montgomery, Esq. Latham and Watkins 633 West Fifth Street Los Angeles, CA 90071-2007 213/485-1234



Provided below are several professional references for Mr. Greg Zitney of Zitney & Associates.

Greg Zitney (Zitney & Associates) References

James Pompy, Assistant Director

California Department of Conservation Office of Mine Reclamation 801 K Street, MS 09-06 Sacramento, CA 95814-3529

Telephone: (916) 323-8565

Email: Jim.Pompy@conservation.ca.gov

Reference for: General SMARA

capabilities

Scott Ruhland, Associate Planner

City of Fremont Planning Division 39550 Liberty Street Fremont, CA 94538 Telephone: (510) 494-4453

Email: sruhland@ fremont.gov

Reference for: City of Fremont SMARA

services

David L. Ripple, Vice President

Shamrock Materials, Inc. 181 Lynch Creek Way P O Box 808044 Petaluma, CA 94975

Telephone: (707) 781-9051

Email: ripple@shamrockmaterials.com Reference for: SMARA and CEQA

capabilities

Paul Jensen, Planning Manager

City of San Rafael Planning Division 1400 Fifth Avenue San Rafael, CA 94901 Telephone: (415) 485-5064

Email: paul.jensen@cityofsanrafael.org Reference for: CEQA capabilities Steve Testa, Executive Officer

State Mining and Geology Board 801 K Street, Suite 2015 Sacramento, CA 95814 Telephone: (916) 322-1082

Email: stephen.testa@conservation.

ca.gov

Reference for: General SMARA

capabilities

Mardy Thomas, Senior Planner

Glenn County Planning & Public Works Agency 777 N. Colusa St.

Willows, CA 95988

Telephone: (530) 934-6540

Email: mthomas@countyofglenn.net Reference for: SMARA and CEQA

capabilities

Steve Butler, Attorney at Law

Clement, Fitzpatrick & Kenworthy

P.O. Box 1494

Santa Rosa, CA 95402 Telephone: (707) 523-1181 Email: sbutler@cfk.com

Reference for: CEQA and permitting

capabilities

Michael Sotak

Retired Sonoma County Planner

Private Residence

Telephone: (707) 537-9744

Email: michaelsotak@gmail.com Reference for: SMARA and CEQA

capabilities

IV. PERSONNEL AND EXPERIENCE

PERSONNEL

As shown in **Figure 2**, **Organizational Chart**, Mr. Brian McCarthy will serve as Project Manager. Other key staffing assignments are also shown.

The Project Manager will be responsible for:

- Day-to-day contact and coordination with the County
- Development of a complete and accurate project description
- Overall planning of the project and organization of the work required
- Assurance that all staff and subconsultants understand the project and analysis approach and that this approach is implemented consistently
- Dissemination of project information and existing studies
- · Ensuring high quality of written output
- Monitoring progress in meeting scheduled milestone and deliverable dates
- Meeting the contractual obligations of the project in relation to reporting and financial matters, monitor budget

Ms. Lisa Ballin will serve as Project Director. She will assist with CEQA strategy and management of project team staff. She will provide oversight and quality control of documentation produced, ensuring that all analyses are thorough, accurate, on-point, and well-substantiated.

Mr. Greg Zitney will serve as Project Advisor for this project on matters involving SMARA compliance, mining and reclamation plan adequacy, and related issues as they are addressed in a CEQA context. In this capacity, he will provide strategic advice, oversight of technical evaluations, and review of EIR drafts for adequacy and completeness, in particular relative to the integration of SMARA requirements in the CEQA process. He will also attend and assist the County at public hearings and meetings, along with Envicom senior staff. Mr. Zitney will review and provide important input to the project description, mining and reclamation impacts mitigation measures, and project description alternatives.

The following provides brief summaries of key team members' expertise and relevant experience; full resumes for the project team staff are attached in **Appendix A**.





Project Management Team

Joseph G. Johns

President Envicom Corporation Lisa Ballin

Director of Environmental Services

Envicom Corporation

Brian McCarthy

Senior Project Manager Envicom Corporation **Greg Zitney**

Project Advisory Zitney & Associates

Environmental Impact Report Analyses

Aesthetics

Jack Blok, PhD

Agricultural Resources

Jack Blok, PhD

Air Quality/ Global Climate Change

Brian McCarthy

Biological Resources

Carl Wishner Jim Anderson **Cultural Resources**

Erin Evarts

Geology and Soils

Brian McCarthy

Hydrology, Water Quality & Supply

Jim Anderson

Hazards

Jack Blok, PhD

Noise

Brian McCarthy

Energy

Charles Cohn

Recreation

Charles Cohn

Transportation and Circulation

Lisa Ballin Brian McCarthy

Technical Studies

Air Quality and Noise

Giroux & Associates

Cultural Resources

BCR Consulting

Transportation and Circulation

Hatch Mott MacDonald

Hydrology, Water Quality & Supply

Balance Hydrologics, Inc.

Geology and Soils

Wilson Geosciences, Inc.

Visual Simulations

Interacta, Inc.

Joseph Johns

President

Mr. Johns brings over 37 years of corporate leadership to our clients. Mr. Johns has overseen the preparation of thousands of environmental studies and compliance reports, none of which has ever been overturned by a court of law. As the President of Envicom Corporation, Mr. Johns has carefully guided company staff and work products over the years, building a reputation for objective analysis and reporting and responsiveness to clients that have earned repeat business. Mr. Johns has served as an expert witness on environmental compliance, development entitlements and land valuation in approximately 30 trials. He is an adjunct professor at the Pepperdine University School of Public Policy and formerly was a co-chairman for UCLA's extension programs in landscape architecture.

Lisa Ballin

Director of Environmental Services

With over 20 years of experience in managing the preparation of environmental documents, Ms. Ballin serves as Director of Environmental Services. She brings a strong foundation in logic and analytical thought, along with an ability to grasp complex technical issues and environmental sensitivities typical of larger-scale projects. She has been able to consistently convey these issues in a written format that is comprehensible to the general public, relevant to agency decision-makers,

internally consistent, and legally sufficient. This ability, along with her managerial and problem solving skills, has earned her a strong reputation with both public and private sector clients.

Ms. Ballin has overseen the preparation of numerous environmental documents for projects in urban, suburban, and undeveloped locations in Central California and the Los Angeles area. Her recent/current mining experience includes overseeing the management and preparation of

Lisa Ballin

- Over 20 Years Experience
- CEQA Expert
- Large-scale and Complex Projects
- Critical Problem Solver
- Quality Control

the Grimes Canyon Mining EIRs (three EIRs for three requested mining permit modifications in Ventura County) and management of the Sakaida & Sons Surface Mine Project EIR in Los Angeles County. Her other industrial experience includes managing the environmental documentation for New York City's Sludge Management Program, a complex system of sludge transportation and processing/disposal, employing a range of technologies at numerous sites throughout the City. She has also contributed to the impact analyses for the Chevron Tank Farm Project EIR in the County of San Luis Obispo. Ms. Ballin is currently overseeing the preparation of an EIR for the Pacoima/Panorama City Redevelopment Plan EIR, which covers an area of over 7,000 acres in the City of Los Angeles, and the preparation of an EIR for the Orcutt Union School District in northern Santa Barbara County.



Brian McCarthy

Senior Project Manager

Mr. McCarthy brings the range of experience necessary to effectively facilitate the preparation of the Oster Mining Project EIR. Mr. McCarthy's experience in managing and preparing CEQA documents along with his prior role as the Surface Mining and Reclamation Act (SMARA) Coordinator for the County of Ventura make him particularly suited to manage the preparation of this EIR. He has an in-depth understanding of mining projects, CEQA analysis of these projects, and implementation of SMARA requirements and mitigation measures applied to these projects. Through his experience in preparing mining EIRs, obtaining related permits, implementing long-term mitigation, and coordination of condition compliance, Mr. McCarthy brings a practical perspective in preparing environmental

Brian McCarthy

- Over 10 Years Experience
- CEQA and Mining EIR Expertise
- SMARA Compliance Expertise
- Public and Private Sector Expertience
- Mining Mitigation Monitoring and Enforcement Expertise

documents that meet lead agencies' objectives while ensuring the feasibility of mitigation measures and alternatives for mining operations. He has in-depth familiarity with local concerns related to mining projects and is skilled at incorporating these into CEQA analyses and the formulation of mitigation measures.

He currently serves as project manager for Tapo Rock and Sand environmental permitting and entitlement services as well as the preparation of the Sakaida & Sons Mining Project EIR. He

previously served as associate project manager in preparing three concurrent EIRs for three Grimes Canyon sand and gravel mining operations in Ventura County. As a former planner for the County of Ventura, Mr. McCarthy was the SMARA Coordinator overseeing County-wide compliance with local and state requirements for approximately 27 sand and gravel and hard rock quarries, including in-river and hillside excavations within agricultural zones, as well as monitoring ongoing final reclamation in accordance with SMARA. His past experience has included numerous public hearing presentations before Planning Commissions and Boards of Supervisors, as well as participation in neighborhood council meetings. He has also been a guest lecturer on CEQA at Westmont College.

Mr. McCarthy's other recent CEQA experience includes managing the preparation of the Willow Springs II residential EIR and the Goleta Mixed-Use Village project EIR in the City of Goleta, preparation of the Village at Los Carneros EIR and Citrus Village MND in City of Goleta, assisting with the management and preparation of the Preserve at San Marcos EIR and contributing to the Orcutt School District EIR and Santa Barbara Botanic Garden EIR in the County of Santa Barbara. He has also recently contributed to the Pacoima Redevelopment Plan Program EIR prepared on behalf of the City of Los Angeles Redevelopment Agency, and the

Pepperdine University Campus Life Program EIR near Malibu in the County of Los Angeles. Mr. McCarthy provided environmental planning consultation for the Heritage Valley Parks Specific Plan (a 750 home, 300-acre development in the Santa Clara River floodplain) in the City of Fillmore, including amendments to the Specific Plan EIR. His past experience also includes preparing applications for and obtaining Permits to Operate from Air Pollution Control District for portable crushing plants and power generators for mining-related recycling operations, as well as permits from resource agencies including the California Department of Fish and Game, the U.S. Army Corps of Engineers, and the Regional Water Quality Control Board.

Greg Zitney

Project Advisor

Greg Zitney will serve as Project Advisor for the EIR. Mr. Zitney brings extensive experience in both SMARA and CEQA to our team and this project. He understands the sensitivities involved with proposed quarry projects, as well as the complexities of adequately addressing issues for SMARA compliance and the CEQA process. He

has been involved in environmental assessments and reclamation planning for mining projects since the early 1970's. Projects have included sand and gravel extraction and hard rock quarrying, as well as gold, uranium, coal, and dolomite mining. Currently, approximately 75 percent of Mr. Zitney's workload involves mining projects and the practical application of SMARA regulations. He has managed multi-disciplinary teams for preparation of reclamation plans, conducted inspections of mining sites for lead agencies, served as an advisor to lead agencies and

Greg Zitney

- Nearly 40 Years Experience
- Over 300 CEQA Documents
- SMARA Expert
- Public Sector and Mining Clients
- Advanced CEQA and SMARA Instructor
- Public Hearings

mining operators on SMARA requirements, and provided expert witness services in litigation involving SMARA and reclamation issues. He has also been the lead instructor for a University of California at Davis Extension course on SMARA for the past 15 years. Mr. Zitney is experienced in preparing staff reports and giving presentations to planning commissions, boards of supervisors, city councils, the State Mining and Geology Board, and community groups. He has contributed to or managed well over 300 CEQA documents during his career, and has also taught many basic and advanced CEQA seminars.

Travis Cullen, LEED AP

Chief Operating Officer

Mr. Cullen is responsible for day-to-day oversight of projects, staffing, and client relations. During his tenure with Envicom Corporation, he has utilized his leadership skills to manage CEQA projects as well as shape and refine the firm's biological and permit acquisition services. Since 1998, Mr. Cullen has provided a variety of environmental consulting services to both public and private clients that have



ranged from due diligence, technical studies and constraints analyses associated with site planning and entitlement strategy to EIRs, MNDs and Mitigation Plans. He is also responsible for the processing of Trustee Agency Permits including CDFG Streambed Alteration Agreements, 2081 Take Permits, ACOE 404 permits, RWQCB 401 Water Quality Certifications and Water Discharge Requirement Permits. As the primary point of contact between Envicom Corporation and the County of Ventura Biologist, he has overseen preparation of Initial Study Biological Assessments (ISBA) and worked with County staff to refine the ISBA guidelines. Recently, Mr. Cullen has been working with Ventura County Resource Management Agency staff to identify the scope of the Biological Resources section to be addressed in the Ozena Valley Ranch Mining and Aquaculture Project EIR. Additionally he is managing CEQA and permitting services for the Conrad N. Hilton Foundations Headquarters Campus (seeking LEED Platinum), provides oversight for the Wildwood Estates Residential Development EIR (Ventura County), and just completed processing of Trustee Agency Permits to allow the City of Ventura to perform long-term maintenance of the Moreland Ditch drainage facility. Mr. Cullen's experience with a variety of project types at various stages of the planning, entitlement, and construction process provides a thorough understanding of the individual environmental issues, direct and indirect impacts, and feasibility/ effectiveness of mitigation measures. Mr. Cullen is a LEED Accredited Professional and is currently serving as the Ventura County Representative for the Channel Counties Chapter of the California Association of Environmental Professionals.

Primo Tapia

Vice President, Officer of the Corporation

Mr. Tapia has 20 years of experience in the analysis of environmental constraints, CEQA compliance, development impact assessment, resource entitlement and permitting and construction monitoring. He has recent first-hand experience with complex institutional and industrial projects and the issues that are common to them. His project experience includes key roles in the preparation of CEQA compliance documents including the Baldwin Hills Oil Field Community Standards District EIR, for Los Angeles County; Chevron Tank Farm Redevelopment EIR, for the City and County of San Luis Obispo, Southern California Edison's Fogarty Substation Proponent's Environmental Assessment, for the California Public Utilities Commission; and Pepperdine University's Campus Life Project EIR, for Los Angeles County. Mr. Tapia is also experienced coordinating and managing large-scale permit compliance projects such as that undertaken for the Qwest Communications Fiber Optic Cable Installation Project. Mr. Tapia managed the preparation of Operation, Emergency, and Fire Prevention Plans as well as Environmental Assessment documents for the installation of fiber optic cables and pull boxes within 19 miles of federally held land. Mr. Tapia supervised all environmental and archaeological monitoring activities during construction and directed a team whose primary responsibility was to ensure contractor compliance with numerous Angeles National Forest Special Use Permit conditions intended to minimize potential impacts to forest resources.

Jack Blok, Ph.D., MBA

Director of Cartographic Services

Dr. Blok has provided cartographic services for Envicom Corporation for over twenty years and has over thirty years of experience in the fields of geography, cartography, and environmental impact analysis for issues including aesthetics/ visual resources, agriculture, and land use. In addition to his professional experience in inventorying environmental resources, field mapping, and interpretation of aerial photography, Dr. Blok has expertise in the evaluation and modeling of visual resources and assessing the aesthetic impacts of proposed projects in both natural and developed environments. Dr. Blok was a key contributor to mapping and environmental assessment for past Envicom work on the project site and the Santa Margarita Ranch. His recent project experience includes the EIR aesthetics/ visual impact analyses for the Grimes Canyon Mining Projects, the Sakaida & Sons Surface Mine Project, the Hilton Foundation Headquarters, the Santa Barbara Botanic Garden Vital Mission Plan, the Village at Los Carneros, and the Pepperdine University Campus Life Project. Dr. Blok has also applied his academic background in agricultural economics to agricultural resource assessments for the analysis of Santa Barbara County's Agricultural Planned Development (APD) zones; impacts to agricultural resources and cattle operations posed by large lot residential subdivisions of the Hollister Ranch and Mission Oaks Ranch; ranch well development and grazing on the Hearst Ranch; and impacts to agricultural resources and cattle operations stemming from a proposed subdivision of the Santa Margarita Ranch.

Carl Wishner

Principal Biologist

As Envicom Corporation's principal biologist, Mr. Wishner has over 25 years experience in biological consulting. He has been the lead investigator and primary author of numerous IS, EIR, EA, and General Specific Plan documents related to biological and wetland resources, focusing primarily on coastal southern California ecosystems. Mr. Wishner is an approved consulting biologist for San Luis Obispo County and Ventura County. He has managed numerous biological projects, including several focusing on large land areas, including (former) Ahmanson and Jordan Ranches, and Adams Canyon in Ventura County, and Santa Margarita and Hearst Ranches in San Luis Obispo County, as well as several mining projects, including the Grimes Canyon Mining Projects in Ventura County, the Sakaida and Sons Surface Mine Project in Sylmar, Los Angeles County, and the Ozena Valley Ranch Mining and Aquaculture Project in the Cuyama Valley, Ventura County. He has also prepared biological analyses that have served as the basis for restoration/mitigation plans for mine project impacts, including for the Cuyama River at Ozena Valley Ranch and the Santa Paula River for Fresno County Rock.

Mr. Wishner has expertise in biological field surveying, habitat classification and mapping, wetland delineation, restoration planning and impact analysis. He has performed numerous surveys for endangered, threatened and rare wildlife and



plant species, and has conducted biological investigations for projects potentially impacting wetland habitats containing sensitive species such as the California red-legged frog, foothill yellow-legged frog, southwestern pond turtle, southern steelhead, tidewater goby, arroyo chub, and many others.

Mr. Wishner is qualified to conduct surveys for the California red-legged frog, based on the qualification requirements of the U.S. Fish and Wildlife Service. For the Dairy Creek Golf Course project in San Luis Obispo County, he surveyed and located the California red-legged frog. For this project, he also evaluated potential construction impacts to the red-legged frog, delineated sensitive red-legged frog habitat, and was involved with the development of a mitigation plan and monitoring of the red-legged frog population in Diary Creek. He also conducted focused surveys that included positive identification of the red-legged frog for the Jackson Ranch EIR over a two-month period and a two-mile stretch of stream, also in San Luis Obispo County.

Additional recent projects for which he has conducted biological studies and impact analyses include the Wildwood Stable Estates Project, Preserve at San Marcos, the Village at Los Carneros, the Santa Barbara Botanic Garden Vital Mission Plan, the Upper Las Virgenes Resource Management Plan (Ahmanson Ranch), and the Pepperdine University Campus Life Project.

James Anderson

Staff Biologist/Environmental Analyst

Mr. Anderson conducts biological surveys/studies in support of permitting and entitlement review processes and CEQA analyses addressing various issues including biology and hydrology/water quality. Mr. Anderson is an approved consulting biologist for San Luis Obispo County. His recent project experience includes preparation of biological resource impact analyses for the Pepperdine University Campus Life Project in Malibu, and biological resources and hydrology/ water quality analyses for the Hilton Foundation's proposed headquarters in Agoura Hills. He has also recently prepared a Los Angeles County Biological Constraints Analysis, and assisted with a hydrology/water quality section of the EIR for the Sakaida & Sons Surface Mine Project in the Sylmar area of Los Angeles County. In the past year, Mr. Anderson has assisted with spring biological surveys and vegetation mapping for the Ozena Valley Ranch Mining and Aquaculture Project in Lockwood Valley, Ventura County, and for the Malibu Country Club in the Santa Monica Mountains. His experience also includes assistance with biological surveys and impact analysis for Ventura County Initial Study Assessments. He has performed Army Corps of Engineers and California Department of Fish and Game jurisdictional delineations for the City of Agoura and for Sinaloa Park, a component of the Rancho Simi Recreation and Park District within the City of Simi Valley. Mr. Anderson has a Master of Environmental Science and Management focusing on ecology and conservation planning from the University of California, Santa Barbara.

Scott Werner

Staff Biologist/Environmental Analyst

Mr. Werner has over 14 years of ecological research and consulting experience in California and the Southwest, and 5 years of biological consulting management experience in southern California. He has worked for universities, federal, county, and state agencies, and in the private consulting sector on biological resource He has managed data-intensive research studies, written biological assessments, managed large construction monitoring projects, and consulted extensively on southern California electrical utility projects. Mr. Werner has worked closely with planners, construction crews, natural resource agency personnel, law enforcement, and private landowners. He has successfully applied for research grants, presented his research at national scientific symposia, and written scientific papers published in respected journals. His surveying and monitoring experience includes extensive work with special-status wildlife species such as southwestern willow flycatcher, least Bell's vireo, California spotted owl, desert tortoise, southwestern pond turtle, California clapper rail, California gnatcatcher, California red-legged frog, and burrowing owl. He holds a U.S. Fish and Wildlife 10(a)(1)(A) Recovery Permit for least Bell's vireo and southwestern willow flycatcher. Mr. Werner is also experienced with rare plants of southern California and with conducting vegetation studies. Mr. Werner has a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University and earned his Bachelor of Science degree in Ecology and Evolution from the University of California, Santa Barbara.

Charles Cohn

Environmental Analyst

Mr. Charles Cohn assists in the preparation of CEQA documentation. His responsibilities include: CEQA analysis, research, and technical reporting on and associated public policy. His experience also includes water quality monitoring of streams and shorelines by sampling surface waters in the Calleguas Creek and Santa Clara River watersheds. This sampling includes on-site testing of water quality, samples for lab analysis, and documentation. He is currently assisting in the preparation of public services and infrastructure impact analyses for the Orcutt Union School District Key Site 17 EIR, as well as the City of Los Angeles Community Redevelopment Agency's Pacoima-Panorama City Redevelopment Plan Amendment/Expansion Project EIR. Mr. Cohn received a Bachelor of Science degree in Environmental Science from California State University Channel Islands with an emphasis in natural resource management. A major area of his studies focused on riparian habitat restoration, baseline data gathering and documentation, and water quality issues. He currently volunteers his time as a water quality monitor for the Ventura Coast keeper (VCK) organization, and is also

a habitat restoration volunteer with the Ojai Valley Land Conservancy and the Ojai Valley Green Coalition.

Erin Evarts

GIS Specialist/Cultural Resources

Ms. Evarts is responsible for the development of Envicom Corporation's GIS department, introducing ESRI ArcGIS 9.2 software as a means of accessing, analyzing and displaying spatial information in an accurate and efficient manner to support the resource management and planning process. She has performed GIS analyses and created graphics for numerous CEQA documents, oak tree surveys, biological assessments, and fuel modification plans. Additionally, she has worked on various sections of CEQA documents including cultural resources, aesthetics, and alternatives, as well as environmental constraints analyses. Prior to working at Envicom, she worked as a cultural resource and GIS consultant for private, State and Federal agencies throughout Santa Barbara, Ventura and Los Angeles Counties, including the National Park Service, Santa Monica Mountains Conservancy, Mountains Recreation and Conservation Authority and Mountains Restoration Trust. Ms. Evarts holds a Master of Arts degree in Geography at California State University, Northridge.

Chris Boyte

Graphics Manager

Mr. Boyte is Envicom's principal computer graphics designer, responsible for the creation of the exhibits, computer graphics and animation, maps, scale models, and visual simulations, as well as multimedia presentations. The graphics that are included in our environmental documents greatly provide clear visual depictions of often complex content. He is also charged with maintaining the company website, posting projects being publicly reviewed to this website where applicable, and archiving electronic files for completed projects. He also contributes to the development of GIS-based graphics, most recently for the Wildwood Stable Estates EIR and Sakaida & Sons Surface Mine Project EIR. Mr. Boyte created graphic products for the Village at Los Carneros EIR, Santa Barbara Botanic Garden Vital Mission Plan EIR, Upper Las Virgenes Resource Management Plan (Ahmanson Ranch), Marina del Rey Oceana Retirement Facility and Holiday Harbor Courts Project EIR, Grimes Canyon Mining EIRs, and for our environmental consulting work with Pepperdine University. Mr. Boyte received a Bachelor of Science Degree in Applied Art and Design with a concentration in graphic design from California Polytechnic State University, San Luis Obispo.

Keith B. Higgins, CE, TE

Hatch Mott MacDonald - Transportation/Circulation

Mr. Higgins has directed and performed numerous planning and design projects during his 35-year career. He has extensive operational experience, including serving as a city traffic engineer. Specific experience includes traffic impact analyses; conceptual and final highway, street system, and subdivision design:



traffic signal design; signing and striping design; transit system planning and design, traffic volume and speed surveys; safety analysis; traffic control device warrant studies; traffic control device inventory; capacity analysis; circulation studies; parking studies; parking facility design; conceptual interchange design; pedestrian and bicycle studies; transportation systems management; transportation demand management; project representation; community traffic committee organization; railroad design coordination, grading and drainage design; structural design; project management; construction inspection; contract administration; and expert witnessing in personal injury and wrongful death litigation.

Jeff Waller, TE

Hatch Mott MacDonald - Transportation/Circulation

Mr. Waller has performed numerous traffic analyses for a wide array of projects, including housing subdivisions and shopping centers, project study reports, quarries and batch plants, and master plans and general plan updates. Mr. Waller has experience performing traffic analyses throughout the greater Monterey Bay Area, plus San Luis Obispo and Southern Santa Clara Counties. He has also performed full traffic signal warrant evaluations, intersection sight distance evaluations, collision history reviews and parking supply and demand studies. Mr. Waller's specific areas of expertise include traffic impact analyses and project impact evaluation. Mr. Waller is experienced in various traffic analysis software packages, including Synchro and HCS.

Pallavi Saxena, Planner/Engineer III

Hatch Mott MacDonald - Transportation/Circulation

Ms. Saxena has experience in transportation planning and land development. During her career, she has worked on various Traffic Impact Studies, as well as Parking and Corridor Studies. She has a strong knowledge of local development codes, regulations and improvement standards. Ms. Saxena is proficient in many different analysis software programs, including Traffix, Synchro, Sim-Traffic, HCS+, Cube, AutoCAD, LDD and ArcGIS. She has excellent verbal and written communication skills and strong analytical skills.

Chris White, REA

Principal Water Quality Specialist, Balance Hydrologics, Inc.

Mr. White will serve as the principal-in-charge, project manager and senior reviewer for the EIR hydrology and water quality chapter. With Balance since 1991, Mr. White leads the firm's CEQA practice is experienced in preparation of technical documents for CEQA compliance, having contributed to or managed assessments at more than 40 sites in northern California where stream channels, ponds and/or wetlands abut areas proposed for development. He is a broadly-trained hydrologist with specialized expertise in the planning and design of best management practices for stormwater quality control. He has prepared CEQA evaluations of reclamation plans for aggregate mining operations on Cache Creek (Yolo County) and recently led preparation of the Hydrology chapter for the Rockville Trails Estates EIR (Solano



County). Other recent projects include the Hydrology chapters for the North Chico Retail and Annexation Specific Plan EIR and the Meriam Park Mixed-Use Project EIR, both in Chico (Butte County), and the City of Ione's wastewater master plan (Amador County). Since 2005, Mr. White has managed Balance's Auburn office. He is a Registered Environmental Assessor in California.

David Brunzell

BCR Consulting

David Brunzell is owner and principal investigator of BCR Consulting. He holds a Master of Arts in Archaeology from California State University, Fullerton. Mr. Brunzell is a Registered Professional Archaeologist (RPA) and has conducted professional archaeological work in California, Alaska, Utah, Nevada, and Oregon for 15 years. He has managed all phases of cultural resource work, and has assisted with government agency and tribal consultation on numerous projects. Mr. Brunzell has presented and published academic papers on prehistoric and historic lithic technology, and historic migration routes. He has also taught anthropology and archaeo-astronomy at the University of La Verne and the Community College of Southern Nevada in the United States and Central America.

Hans Giroux

President, Giroux and Associates

Mr. Giroux is the founder and President of Giroux & Associates. He has prepared or supervised over 3,000 environmental reports on noise/acoustics, air quality, dust, odor or radioactive dispersion. His depth of experience allows him to prepare environmental studies that are accurate, timely and cost-effective. Mr. Giroux will be responsible for conducting the air quality and noise analyses. Giroux and Associates has prepared technical analyses for at least 25 mining operations throughout the region. His recent mining projects with Envicom Corporation include the Best Rock, Grimes, and Wayne J Mining EIRs and the Sakaida & Sons Surface Mine Project EIR.

Ken Wilson, RG, CEG

Principal Geologist, Wilson Geosciences, Inc.

Mr. Wilson has worked as an engineering geologist since 1970. Mr. Wilson, as principal geologist, is a Registered Geologist (#3175) and Certified Engineering Geologist (#928) in California and has more than 28 years of experience in performing large, small, complex, and routine investigations in the region. Mr. Wilson's specialization is assessment of geologic constraints on site development and characterization of sites involving the collection, compilation and analysis of different types of geosciences and hydrologic data in order to make land use decisions in the framework of the EIR process. With his extensive experience in interpretation of aerial photographs and other existing data sources as a primary and secondary tool to fill gaps in existing data bases, Mr. Wilson has provided Envicom with support in the preparation of geologic, seismic and grading/drainage sections for EIRs for many years. Recently, Mr. Wilson conducted third party reviews



and prepared geology and hydrogeology analysis for mining projects including the Sakaida and Sons Surface Mining Project EIR in Los Angeles, and extensive work in the City of Irwindale involving and EIRs for the expansion and closure of operations, including geophysical investigation and engineering evaluation for several mines in the City of Irwindale, and surface mine analysis for a City of Azusa General Plan Update.

Ron Stevens

Visual Simulations, Interacta, Inc.

Ron Stevens is the Principal and Founder, Interacta, Inc. and is a visualization company focused on architectural visual studies and interactive models. The firm integrates aerial photography, survey plots, architectural drawings, and landscape plans to create 3D models for integration with on-site photography, which provides a level of detail that cannot be achieved through traditional means. Ron Stevens has completed numerous photo simulations, including single-family residences and large-scale developments. Mr. Stevens uses the latest technology to develop accurate 3D site models used in photo simulations. In addition, Mr. Stevens has developed custom interactive computer based presentations using project site models to allow developers, planners and government agencies to perform driveby and fly-through visualizations in real time. His most recent experience includes the Marriot project within the City of Goleta, Marina del Rey Oceana Retirement Facility and Holiday Harbor Courts Project (Los Angeles County), Village at Los Carneros Project (City of Goleta), Santa Barbara Ranch Development, the Santa Barbara Botanic Garden Vital Mission Plan, and the Preserve at San Marcos in Santa Barbara County. Mr. Stevens is a Santa Barbara native and has a BSME from California Polytechnic University, San Luis Obispo.

FIRM EXPERIENCE

Envicom Corporation has completed numerous CEQA documents and other environmental studies for projects within Central and Southern California including new and expanded mining projects and other complex projects.

Brief summaries of some of our mining experience are provided below followed by additional relevant project experience provided on the subsequent pages.

Santa Clara River Sand and Gravel Extraction Master EIR

Ventura County Resource Management Agency

Envicom Corporation conducted a comprehensive environmental analysis of all existing commercial sand and gravel mining activities in the Santa Clara River and projected sustainable levels of mineral resource recovery (based on analyses of the records of sediment gauging stations) that would be consistent with the maintenance of the river's aquatic and riparian fauna and flora and the stability of beaches down-current of the Santa Clara River mouth along the shoreline of the Oxnard Plain to Point Mugu and Malibu. Impacts to the river's hydrology and vertical degradation, lateral, and headward erosion and intermittent beach replenishment were each assessed. Impacts to groundwater and hazards to engineering structures including bridges, levees, and pipeline crossings were also evaluated.

Union Asphalt Development Plan

County of San Luis Obispo

Envicom Corporation conducted environmental initial study evaluations for the expansion of a 38-acre sand and gravel mine in the Salinas River in San Luis Obispo County. An annual increase in production of 60,000 cubic yards of sand and gravel per year was projected. The study analyzed potential impacts to biological and groundwater resources and sedimentation transport.

Riparian Habitat Mining Mitigation Plan-Santa Clara River

Ventura County Rock, Inc./U. S. Army Corps of Engineers/Ventura County Flood Control District

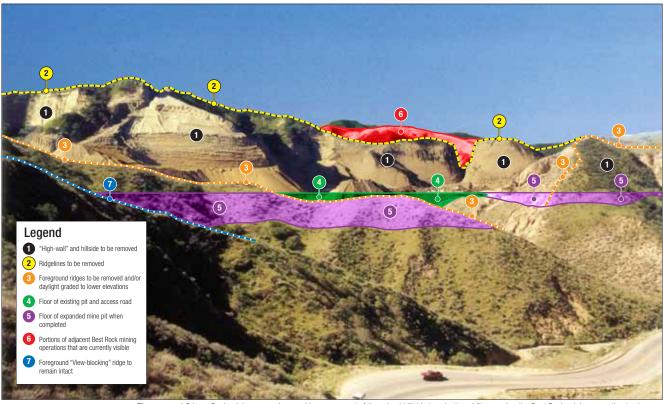
Under the direction of the USACOE and VCFCD, Envicom Corporation prepared a mitigation plan to compensate for sand and gravel mining impacts to wetland and riparian habitats. The plan established specifications for riparian mitigation site preparation; the eradication of invasive species (tree tobacco, giant reed, and castor bean); and the selection, installation, maintenance and monitoring of the restoration site.



Grimes Canyon Mining EIRs

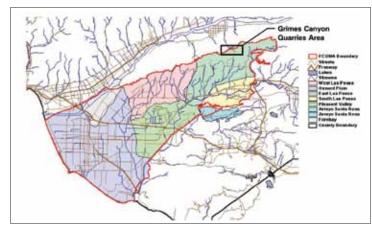
Ventura County

Envicom Corporation prepared the EIRs for three mining projects in Ventura County, proposed by Grimes Rock, Inc., Wayne J Sand & Gravel, and Best Rock Products Corporation. Each of these mining operations is requesting a permit modification to allow for expansion of permit boundaries, increased aggregate (construction grade sand and gravel) production levels, increased daily trucking limits, changes to days and hours of operation, and changes to restrictions in truck routes. These permit modifications collectively constitute the proposed projects assessed in each EIR. The EIRs identify the impacts associated with each of the mining projects, the combined effects of all three mining projects, and cumulative impact of these mining projects in combination with other growth in the area. The mines are located along State Route (SR)-23. Trucks traveling to and from these mines along SR-23 pass through the Cities of Moorpark and Fillmore, which are experiencing residential growth. Key issues raised by the proposed projects are the compatibility of expanded mining operations with land uses along SR-23, traffic congestion, and effects on biological resources, water quality, and scenic views.



The proposed Grimes Rock mining expansion would remove most of the mined hillside terrain (1 and 2), exposing the Best Rock mining operation to view.

CLIENT & LEAD AGENCY: **County of Ventura** Resource Management Agency, Planning Division

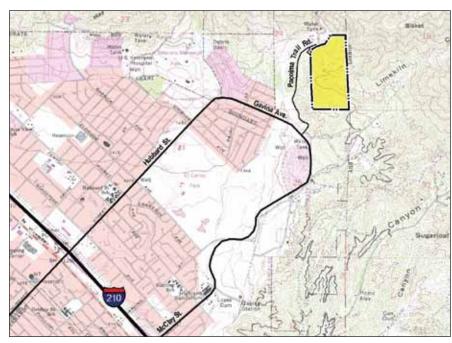




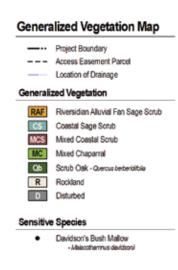
Sakaida & Sons Surface Mine Project EIR

Los Angeles County

Envicom Corporation is currently preparing an EIR for the Sakaida & Sons Surface Mine Project. The project proposes the construction and operation of a surface mine on about 25 acres within a 73-acre property in unincorporated Los Angeles County. The site is located in a mountainous area on the outskirts of the County, adjacent to and west of the Angeles National Forest, north of the Foothill Freeway (Interstate 210). It is undeveloped and naturally vegetated. The primary objective of the project is to supply a local, reliable, and cost-effective source of aggregate material to meet the area's demand for construction materials. The EIR will assess the project's potential impacts on views of the site, recreational trails (a planned alignment of the Rim of the Valley Trail traverses the proposed mining area), truck traffic, air quality, and noise impacts.



CLIENT: Sakaida & Sons





Ozena Valley Ranch Mining and Aquaculture Project Biological Resources Assessment

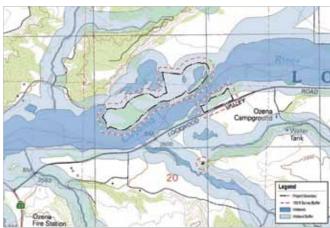
Ventura County

On behalf of the Ventura County Resource Management Agency, **Envicom Corporation** biologists prepared a Biological Resources Assessment of the Ozena Valley Ranch Mining and Aquaculture project site located in the upper valley segment of the Cuyama River. The assessment defined the existing conditions within areas occupied by an existing stock pond, processing area, and stock pile area as well as undisturbed naturally vegetated areas planned for an additional stock pond and aquaculture tank site. Research conducted to support the assessment included a literature review of the applicant's biology studies, the County's BIOS data, the California Natural Diversity Database (CNDDB), and field surveys over a period of three days. Issues addressed in the assessment followed the requirements of the County's Initial Study Biological Assessment, which include: Vegetation Communities and Plant Species, Wildlife, Migration Corridors, Wetlands and Other Jurisdictional Areas, and Sensitive Resources.



Vegetation Communities

Ventura County Resource Management Agency



Ventura County Wetland Inventory and Wetland Buffers

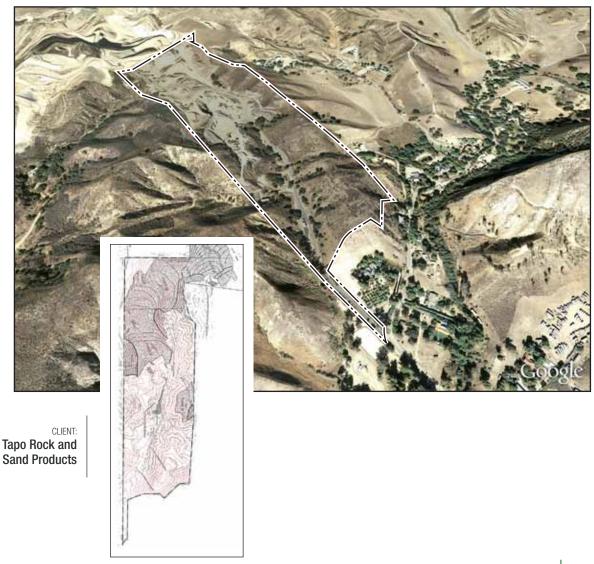


Tapo Rock & Sand Products Mining Conditional Use Permit Environmental, Permitting and Entitlement

County of Ventura

Envicom Corporation provides land use and environmental consulting for the continued operation of Tapo Rock and Sand Product's sand and gravel mining operation within the County of Ventura. Envicom provides compliance coordination and environmental representation with agencies that have regulatory oversight of uses allowed under the mine's Conditional Use Permit and other appurtenant permits within the extensive regulatory framework that oversees the project. Recent consulting services have included processing of a CUP time extension, formulation of conditions of approval, environmental document determinations, and site boundary adjustments to account for future mining and areas that have undergone final reclamation per the Surface Mining and Reclamation Act. Other work tasks include coordination with the County Air Pollution Control District (APCD) to secure Permits to Operate for upgrades and changes to crushing and screening plants

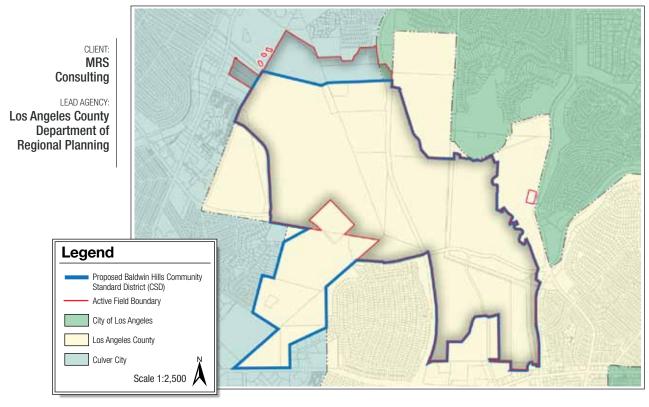
In conducting SMARA Coordination, Envicom works with Ventura County staff and the State of California (if necessary) to ensure annual SMARA compliance in the form of Financial Assurances, site inspections, condition compliance, and mining and reclamation plan compliance. This role includes digital mapping in GIS to demonstrate annual mining progress and areas requiring reclamation financial assurance.



Baldwin Hills Community Standards District (CSD) EIR

Los Angeles County

Envicom Corporation was part of a team that prepared a comprehensive EIR for the County of Los Angeles' Community Standards District (CSD) that was created for, and covers, the active portions of the Inglewood Oil Field in the Baldwin Hills. The CSD was created by the County upon application for the special district by the oil field operator (Plains Exploration and Production Company—PXP). PXP proposed a highly controversial project to drill new wells to extend the life of the field. The CSD would establish a means and framework for the establishment of development standards and enhanced operating conditions for the controversial project. Since the beginning of the oil field's initial and relatively "remote" development in 1924, the growth of the cities and communities that surround the Baldwin Hills have encroached upon the boundaries of the active oil field operations from all sides, placing sensitive residential, public school and park land uses in close proximity to active oil field operations. The sections of the EIR prepared by Envicom Corporation included: Transportation and Circulation; Land Use and Policy Consistency Analysis; Recreation; Visual Resources and Aesthetics; and Public Services and Utilities. To complete the Visual Resource and Aesthetics and Land Use Sections Envicom Corporation's professional staff undertook field investigations of surrounding streets and of major transportation corridors to identify all surrounding land uses and potentially sensitive public and private property locations to the expanded oil field operations.



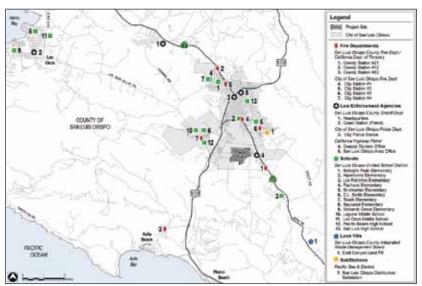


Chevron Tank Farm Restoration and Redevelopment EIR

County of San Luis Obispo Department of Planning and Building, and City of San Luis Obispo Community Development Department

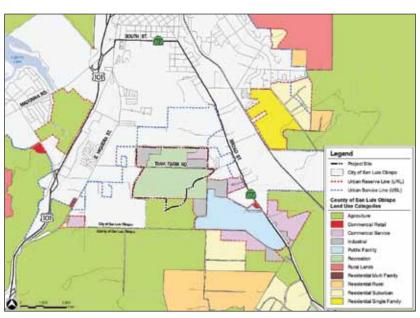
Envicom Corporation is part of a team that is preparing a comprehensive EIR for the restoration and redevelopment of a 332-acre Chevron Tank Farm property. The site is currently under the jurisdiction of the County of San Luis Obispo; however, it is within the City of San Luis Obispo's sphere of influence and has been considered for annexation into the City. Because of this potential annexation, the project proposes two separate development options, one under the jurisdiction of the City of San Luis Obispo, and one under County jurisdiction. Therefore, both the City and County serve as co-lead agencies. This presents a unique challenge in preparing the EIR. Each jurisdiction allows for different site uses and densities; requires different utility and service providers; may utilize different thresholds of significance; and varies in mitigation requirements. The project proposes commercial and industrial uses at the site. Development is proposed to occur in five phases over a

period of 25 years with each phase constructing approximately 160,000 square feet of leasable floor area. Envicom Corporation is preparing the land use and policy consistency, public services and utilities, population and housing, and recreation sections of the EIR.



Parks and Recreation Facilities

County of San Luis Obispo
Department of Planning
and Building
City of San Luis Obispo
Community Development
Department



County of San Luis Obispo Land Use Categories

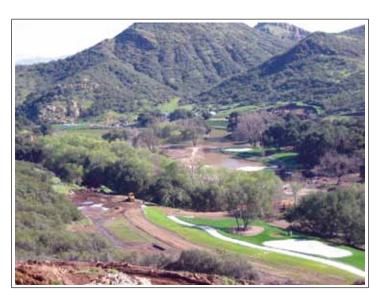


Lake Sherwood Tract 4192/4409 Environmental and Biological Services/Agency Permitting/Monitoring

Ventura County

Envicom Corporation has served as the lead environmental consultant to Sherwood Development Company on the Tract 4192/4409 Residential Golf Course Development of 101 estate residences and an 18-hole par 3 Jack Nicklaus Golf Course in eastern Ventura County. Our involvement initiated with preparation of existing conditions biological surveys for general vegetation, rare plants, as well as focused surveys for sensitive species. Sensitive species identified on the site include San Diego horned lizard, Lyon's pentachaeta, least Bell's vireo, Western Pond turtle, and Qiono Checkspot. Existing conditions technical reports and impact sections were prepared to support preparation of an MND by the County, and subsequent permit applications for a CDFG Section 1603 Streambed Alteration Agreement, an ACOE Section 404 Nationwide Permit, and a RWQCB Section 401(b) Water Quality Certification. Envicom processed all three of the Trustee Agency permits and negotiated with CDFG to allow for the payment of a significant in-lieu fee mitigation to the Mountains Restoration Trust for the purchase and preservation of off-site resources. Based on the conditions of the Agency permits and the County MND, a series of eight (8) mitigation and monitoring plans were prepared, including a Wetland / Oak Woodland Mitigation Plan, an Oak Tree Preservation and Relocation Plan, a Fuel Modification Plan, a Lyon's Pentachaeta Habitat Enhancement Plan, a Weed Abatement Program, an Integrated Pest Management Plan, a Capture and Relocation Plan, and Pre-Construction Clearance Protocol surveys for San Diego horned lizard, and least Bell's vireo. Envicom Corporation conducted construction and long-term monitoring to satisfy the numerous requirements of the approved monitoring plans. Our monitors were in the field five (5) days a week providing oversight, recording observations, and providing construction crew training to alleviate potential impacts before they occur.









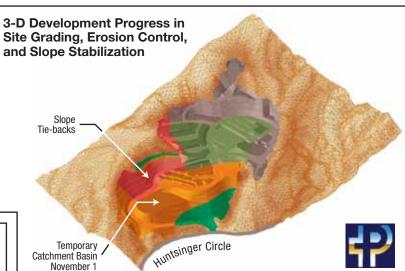
Pepperdine University Graduate Campus Project Development EIR

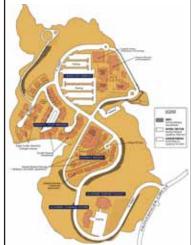
Los Angeles County

Envicom Corporation currently serves as the prime environmental and entitlement consultant for Pepperdine University on the implementation of their Long Range Development Plan. In this capacity, Envicom Corporation prepared an exhaustive EIR on the full buildout of Pepperdine University's Graduate Campus, which includes development of a 360,300 square-foot Graduate Complex. The project also includes 234,800 square foot of student and faculty housing. The complexity of the EIR was compounded by many separate but highly interrelated projects such as the establishment of a new sewer district, sewer annexations, implementation of a new stockpile area for campus construction activities, ongoing debris basin maintenance, and "waters of the U.S." delineation and mitigation, etc., all of which require separate but parallel permitting from multiple federal, state, and local public agencies, including the California Coastal Commission, City of Malibu, and the County of Los Angeles. The Graduate Campus Project received all necessary approvals and has been constructed. Envicom Corporation is currently assisting the University with environmental documentation for a new set of improvements to the campus.

CLIENT:
Pepperdine University

LEAD AGENCY:
Los Angeles County
California Coastal Commission







Heritage Valley Parks Conceptual Design Plans for Enhancement of Riparian and Wetland Water Quality and Wildlife Habitat

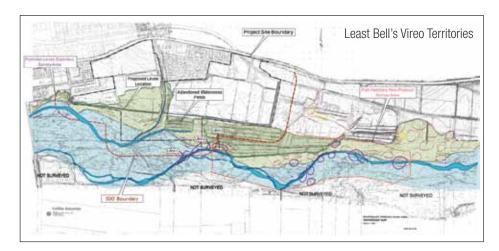
City of Fillmore

Project Objectives: Pursuant to project impacts to waters of the US and in anticipation of mitigation requirements relative to Section 404, Section 401 Water Quality Certification and CDFG 1603 Streambed Alteration Agreement permits, **Envicom Corporation**, with PACE Engineering, Inc., developed conceptual plans for reconstruction and naturalization of a creek channel for enhancement of water quality and wildlife habitat.

Services Provided: To date, including the creek enhancement plans, Envicom Corporation has provided a variety of services, including: project planning, biological resources surveys, biological resources mapping, jurisdictional waters delineation, project impact assessment, regulatory permit assistance and coordination with resource agencies, and development of technical studies. Surveys have been conducted for sensitive riparian bird species, including the Federally and State endangered least Bell's vireo and State endangered Southwestern Willow Flycatcher.

Designs for Naturalization of Sediment Pond / Creek: Envicom Corporation staff, teaming with PACE Engineering, Inc., developed conceptual designs plans for creation of emergent marsh wetland areas in a regional sediment basin. In addition, design plans for the naturalization of a proposed creek 1,900-feet in length were developed. Emergent wetland plants are proposed as in-stream habitat and riparian plants were proposed for planting on creek banks. Designs for channel habitat diversity were proposed by incorporating riffles, pools, rocky substrate and woody debris. These design features provided dual functions of water quality enhancement and wildlife habitat. Our staff will subsequently develop a detailed restoration and monitoring plan for the proposed restoration.

CLIENT: Heritage Valley Parks Project, Ventura County





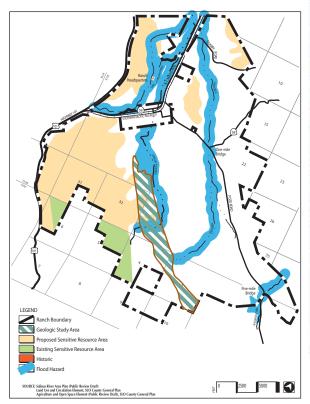


Santa Margarita Ranch Environmental Constraints Analysis

San Luis Obispo County

Envicom Corporation prepared a comprehensive evaluation of environmental constraints for the 14,000-acre Santa Margarita Ranch. The constrains analyzed examined a full range of environmental topics, all of which, were judged by County staff to be a critical component of future policy decisions to consider allowing urban levels of development on the Santa Margarita Ranch. The environmental constraints examined included: geotechnical constraints, water availability, drainage, erosion, sedimentation, biological resources, wildlife migration, visual resources, wildfire hazard, agricultural capacity, agricultural intensification, air quality, land use compatibility, cultural resources, public safety and traffic generation and circulation. Envicom Corporation's computer graphics department developed state of the art color mapping for every environmental constraint. This work greatly facilitated the clarity and usability of the study's products by the general public and by the County's decision makers. The constraints study was intended to serve as a resource for future use by both the owner and County Staff. Additionally, the Constraints Analysis was to be used as a comprehensive environmental setting for an EIR for the parcel map revision to the ranch. Envicom Corporation later prepared the Santa Margarita Ranch parcel map revision EIR under contract to the county of San Luis Obispo.







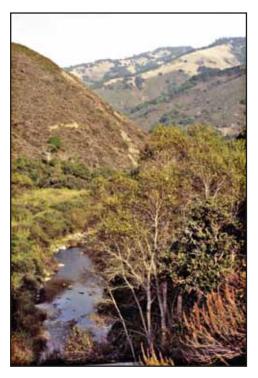
Hearst Ranch Master Planning and Entitlement

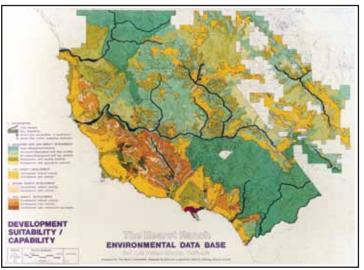
San Luis Obispo County

Envicom Corporation has provided environmental consulting services to the Hearst Corporation and has undertaken a variety of property entitlement, development and environmental due diligence-related assignments in the planning for the eventual development of the 88,000 acre Hearst Ranch in coastal San Simeon, California.

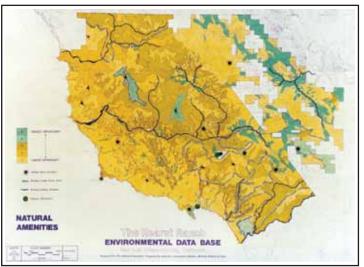
Planning efforts focused on sub-parcel-specific ecological sensitivity/hazards, land suitability, development capability for selected areas utilizing a composite synthesis of each of the environmental data topics involving specific physical, ecological, and resource factors. Planning studies included: (1) preparation of a comprehensive environmental data-base to meet San Luis Obispo County concerns over the Ranch's development that included in-depth original research of biological, physical, ecological and historical factors for the entire ranch; (2) preparation of Master Plans and alternatives for the dispersed development of five destination resorts on the ranch property; (3) preparation of a master environmental impact report for the development and appropriation of groundwater reserves to serve the developments; (4) liaison with County of San Luis Obispo officials to gain appropriate general plan designation for development of the Hearst Ranch and approval of the Master Plan by the County and the California Coastal Commission; and (5) site specific development planning and environmental due diligence for the first phase of development.

CLIENT: The Hearst Corporation





Development Suitability Capability map



Natural Amenities map



V. STUDY METHODOLOGY

The Envicom Corporation team will prepare all documentation necessary to successfully complete the environmental review process pursuant to the California Environmental Quality Act (CEQA) and CEQA Guidelines. Below is an outline of the anticipated task-by-task scope items in chronological order. These tasks are followed by a discussion of the methodology for addressing each of the environmental issue areas that will be included in the EIR.

Task 1 Preparation of Administrative Draft EIR

Envicom Corporation will prepare an Administrative Draft EIR (ADEIR) with appendices for County review. We will work closely with the County to produce this version of the document, as this task is the first major deliverable product and will set the stage for subsequent deliverables. Any concerns or information needs will be communicated and efficiently resolved to assure their timely resolution and to maintain the project schedule.

The following subtasks describe the major elements of the document.

Subtask 1.1 - Project Description/EIR Outline

Envicom Corporation will prepare the EIR Project Description and EIR Outline. The Project Description will be complete with appropriate graphics and will describe all aspects of the project, including proposed physical changes to the site, onsite operational activities, and off-site trucking. It will also identify the project's objectives and required approvals. The EIR Outline will identify each of the sections to be included in the document and a typical outline for the subsections to be included in each of the impact analyses.

Envicom Corporation will submit a draft Project Description and EIR Outline to the County for review. The approved Project Description and EIR Outline will serve as the basis for all of the EIR analyses. Our cost estimate assumes one round of revisions to the draft Project Description and EIR Outline and that these do not change once the County has approved them and the impact analyses are underway.

Deliverables will include four (4) hard copies and one electronic copy of the draft Project Description and EIR Outline.

Optional Task: Review of Reclamation Plan for SMARA Compliance

If the mining project and reclamation plan are intended to be reviewed and approved concurrently, it will be important to assure that the reclamation plan meets all SMARA requirements. The Office of Mine Reclamation provided comments on the reclamation plan in July of 2010. Rather than going forward with the EIR



analysis on the reclamation plan submitted "as is," Mr. Zitney could perform an initial review the plan for completeness/adequacy under SMARA to ensure that it is "CEQA ready" and able to be approved according to current standards. Such a review would ensure that the project description is complete and adequately detailed for public review and EIR analysis.

Subtask 1.2 - Environmental Setting

A description of the general environmental setting will be included in the EIR as a separate section prior to the environmental impact analyses. This section will provide an overview of the site's setting, including existing and historical land uses in the project area and at the site, General Plan land use designations, and Zoning. This section will also describe the regional mining context in terms of the existing demand and supply for decomposed granite and granite aggregate in the region. Detailed descriptions of existing conditions pertaining to each environmental issue area will be provided in each of the impact analysis sections, as described under Subtask 1.3.

The environmental setting will also provide a list of related projects to be considered in the cumulative impact analysis. This list will be prepared in consultation with the County, and will include projects that are proposed and projects that have been approved but not yet constructed. Of particular importance for this project are other proposed mine operations in the area.

Subtask 1.3 - Impact Analyses

Existing Conditions

In addition to the information provided in the Environmental Setting section described in Subtask 1.2, above, an in-depth description of existing conditions will be provided in the environmental analysis section for each issue included in the EIR. The breadth and depth of the environmental setting information will reflect the information and level of detail that is relevant and necessary to support the impact analysis.

Thresholds of Significance

The Initial Study and CEQA Guidelines (Appendix G) will provide the basis for significance thresholds used to determine impact significance. Local standards related to environmental impacts (e.g., those set forth in the County's General Plan or ordinances) will also be used in the formulation of significance thresholds, as appropriate.

Determination of Environmental Impacts

Envicom Corporation will identify both the direct and indirect environmental effects that could result from project approval. Our analysis will be based on our peer review of previously completed technical studies, in concert with new technical work and objective assessment of the project. Substantive evidence for our findings and the analytical methods used will be integrated into the discussion. All impacts will



be evaluated against stated significance thresholds. Impacts will be quantitatively and/or qualitatively assessed, as appropriate. We will follow an approach that helps in understanding project effects both before and after mitigation, and makes clear the connection between project components, environmental impacts, and mitigation measures.

Determination of Cumulative Impacts

As discussed above, a list of related projects (i.e., other projects in the area that, when considered in combination with the proposed project, would result in the potential for significant cumulative impacts) will be developed in consultation with the County. Cumulative impacts will be evaluated for each environmental issue based on this list and/or projected growth rates, as applicable. For each environmental topic, the Envicom team will identify the potential for significant cumulative impacts that would occur as a result of the proposed project in combination with related projects. If a significant cumulative impact is identified, the EIR will assess whether or not the project's incremental impacts are "cumulatively considerable," as per Section 15130 of the CEQA Guidelines. We understand that the potential for cumulative impacts associated with the proposed project and truck traffic generated from nearby Hansen Aggregates mine. Our analysis will fully assess potential cumulative impacts accordingly.

Identification of Mitigation Measures

A key element of the environmental process is to propose measures that can eliminate or reduce significant adverse impacts. Practical and feasible mitigation measures will be identified for each significant environmental impact that may be generated by the project. Any indirect adverse effects associated with the implementation of mitigation measures will also be identified and additional mitigation will be proposed if necessary. Mitigation measures will be clearly worded to avoid ambiguity and assure proper implementation through the Mitigation Monitoring and Reporting Program.

Determination of Residual Impacts/Significant Unavoidable Adverse Impacts

Each environmental impact will be reviewed to determine the level of significance of impacts both before and after mitigation. The level of significance will be clearly stated for each impact, clearly identifying significant unavoidable adverse impacts.

Subtask 1.4 – Evaluation of Alternatives

As described above, we believe the alternatives analysis is particularly important for this project. As such, we will work closely with the County to define a range of alternatives that satisfies CEQA requirements and frames reasonable options for the proposed mining operation. In accordance with Section 15126.6 of the CEQA Guidelines, the alternatives will be designed to reduce or eliminate the project's significant impacts while still meeting most of the project's basic objectives. It is our opinion and practice to develop the alternatives after the environmental analysis is underway and all of the significant impacts are identified. In this way, they will be



tailored to address the specific project impacts and will be designed with a greater understanding of the relevant conditions at the site and in the area. Our proposal assumes that the EIR will include up to four alternatives. The following provides a preliminary framework for developing alternatives to be included in the EIR based on our previous mining experience and current understanding of the project:

- No Project This alternative will assume that the proposed project is not approved, and the proposed mining would not occur.
- Revised Mining Plan If the analysis identifies significant impacts specifically associated with one or more aspects of the mining plan (e.g., depth and/or areas of excavations, extraction rates or quantities, etc.) or reclamation activities, an alternative may involve the revision(s) of this plan.
- Alternative Operations If the analysis identifies significant impacts that
 are attributable to the operational characteristics of the project (e.g., hours
 of operation, uses, etc.), an alternative may involve restricted operational
 parameters.
- Alternative Route (Other Potential Routes) We understand that a key factor in the project's potential impact on the surrounding community relates to the route along which trucks would travel to and from the site and the extent to which sensitive land uses are present along that route. Our approach includes an assessment of all potential routes that would provide reasonable and practical truck access from Highway 101 to the project site. Once these routes have been identified, we will determine which one would provide the greatest reduction in potential impacts as compared to the proposed truck route. If one such route exists, it will be selected for analysis. If none are found to reduce impacts, the analysis will simply explain the route options reviewed and why none was selected for further analysis.

We will analyze each alternative for the same set of environmental issues as the proposed project. The analysis will provide a qualitative comparison to identify whether or not the alternative would increase, decrease, or not affect the impacts expected under the proposed project. In accordance with CEQA, an environmentally superior alternative will be identified from the alternatives evaluated. If the No Project Alternative is found to be superior, the EIR will identify a superior alternative among the remaining alternatives.

Optional Task: Charette Process Re: Truck Traffic Issues and Alternatives

Envicom Corporation understands the level of public concern regarding the proposed project and the need to thoroughly address these concerns during the CEQA environmental review process. The project-generated increase in heavy truck traffic along SR 58 is one of the key aspects of the project that would result in potential impacts to the surrounding community of Santa Margarita, including



residents, school children, visitors, and commuters who reside in, conduct business in, or pass through the town. In addition to evaluating the significance of impacts related to increases in truck traffic resulting from the proposed mining operation, the EIR will assess alternatives designed to avoid the project's significant impacts. We anticipate that an in-depth effort to fully explore any and all possible solutions to the conflicting needs of providing a local source of aggregate and minimizing impacts on the local community will be a critical element of the environmental review process. We also understand that identifying these alternatives and assessing their feasibility involves obtaining the perspectives and input of various agencies and/or stakeholders.

Envicom has dealt extensively with similar situations and has implemented proactive approaches to help frame key concerns and comprehensively assess the range of potential alternatives. One of the previous successful approaches we have taken was to implement a charette process focused purely on truck traffic issues and solutions. We believe that this approach may facilitate the environmental review process for this project as well. As such, we are including a similar charette process as an optional task in our proposal for the County's consideration. We understand that there has already been an internal evaluation of potential alternative routes and that the project's potential trucking impacts as they relate to scoping of the EIR have been publicly vetted. We also recognize that this is an extra step in the CEQA process. However, we believe that starting off the CEQA process with an open and broad view of the potential issues and taking a hard look at potential solutions will streamline later steps in the process (such as the public and agency comments regarding the range of alternatives explored or the feasibility of particular alternatives). In addition, although it may ultimately be determined that some or all of the alternatives identified in this process may be infeasible, we believe that having conducted a full search for alternatives and providing a substantiated basis for concluding infeasibility will be an important part of the administrative record.

The charette process will entail the following:

Charette 1.1 Preparation of Charette Materials and Identification of Participants

Envicom Corporation will prepare presentations and handouts that will be provided to all attendees of the charette. These materials will clearly identify the environmental issues associated with the proposed project's trucking component and provide an accurate portrayal of the regional context of nearby communities, topography, and road/rail infrastructure will be developed and presented.

Envicom will work with the County to establish an expert panel to participate in the charette. At a minimum, the panel will include transportation representatives from San Luis Obispo County, Caltrans, and CHP. The applicant's traffic consultant, LPG Consulting and members of the public, may be included at the discretion of County staff.



Charette 1.2 Charette Meeting(s)

The charette would be designed to facilitate a four-step process: (1) review of the issues; (2) assess context and constraints; (3) brainstorm regarding potential alternatives; and (4) evaluate the feasibility and effectiveness of each alternative. It will be facilitated by Envicom Corporation and the EIR transportation subconsultant, Hatch Mott MacDonald. It may occur over one day, with steps 1 and 2 accomplished in the morning and steps 3 and 4 in the afternoon. Depending on the range of potential alternatives identified, a second day may be necessary.

Our proposal assumes that the County would provide a meeting room with a projector and conduct all noticing for the meeting including public notice, if required.

Charette 1.3 Documentation

Envicom will document the proceedings and conclusions of the charette process. These will be included as an appendix to the EIR and summarized in the EIR alternatives section .

Subtask 1.5 – Other Required EIR Sections

In addition to the topics listed below under Methodology for Analysis of Environmental Issues, the EIR will include the following:

- Table of Contents The Table of Contents will be organized to provide sufficient level of detail for the reader to easily navigate the document.
- Introduction/Executive Summary This will include an introduction to the EIR (describing the purpose and public review process for the EIR), a summary of the project description, the project's significant impacts, and the alternatives. A tabular summary of all environmental impacts will be presented. Potential areas of controversy and issues to be resolved will also be discussed.
- Growth Inducing Impacts This section will provide a discussion of the ways in which the project could foster economic or population growth, either directly or indirectly, in the surrounding area.
- Irreversible and Irretrievable Commitments of Resources This section will identify the extent to which the proposed project's primary and secondary impacts will commit non-renewable resources to uses that future generations will probably be unable to reverse.
- Preparers of the EIR, Contacts, References This section will provide a list
 of County and consultant team members who contributed to preparation of
 the EIR, as well as all Federal, State, local agencies, community groups,
 and other persons and organizations consulted regarding the preparation
 of the EIR. It will also include a list of all reference sources used in the
 preparation of the EIR.
- Technical Appendices These provide supplemental technical material pertinent to the preparation of the EIR.



Subtask 1.6 – Mitigation Monitoring and Reporting Program

We propose to include a Mitigation Monitoring and Reporting Program (MMRP) pursuant to Public Resources Code Section 21081.6 at the Draft EIR stage. We anticipate that the ability to monitor mitigation measures identified in the EIR will be an important factor in assuring that impacts, particularly those pertaining to truck traffic would be effectively mitigated. The MMRP will consist of the following specific elements:

- Identification of mitigation measures that reduce significant impacts;
- Identification of the regulatory (enforcement) agency responsible for the implementation of each mitigation measure;
- Specific methodologies to monitor the implementation and effectiveness of adopted mitigation measures; and
- A reporting program to document findings of the monitoring program.

Subtask 1.7 -Internal Review

An important element of the ADEIR preparation is our internal review of each of the EIR sections and the document as a whole. This assures internal consistency throughout the document, with respect to both content and approach. The Project Manager, Project Director, and Project Advisor will be responsible for this review.

Subtask 1.8 – Document Preparation/Production of Administrative DEIR

Once the ADEIR is complete, we will provide 5 copies of the ADEIR to the County (4 hard copies in three-ring binders and 1 CD with Word files). This task includes word processing, graphics, and production for the entire document.

Task 2 Preparation of the Draft EIR

Upon receipt of the County's comments on the ADEIR, Envicom Corporation will revise the DEIR accordingly and prepare a Screencheck Draft EIR so that the County can conduct a final review of the document before it is published. We will submit the Screencheck document to the County electronically. After receiving County comments on the Screencheck DEIR, Envicom Corporation will make final modifications as necessary in order to prepare the DEIR for formal public and outside agency review.

Our proposal assumes that, for each of the two anticipated rounds of review, we receive one set of comments from the County, provided in a redline/strikethrough format or another format in which all edits and comments are clearly visible. It is difficult to identify the level of effort for this task prior to receipt of the comments, however, an estimate is provided for purposes of this proposal.



Draft EIR Deliverables

We will provide the County with 45 copies of the DEIR as follows:

- 5 hard copies with appendices (in three-ring binders)
- 15 bound copies with appendices included on a CD in an envelope
- 25 CDs (including graphics and appendices) in searchable .pdf format
- 10 separately bound copies of the appendices
- 1 electronic copy in original Word format

We will also provide 1 electronic copy of the DEIR for placement on the County's website, in a format that is easily downloadable.

Our proposal assumes that the County will prepare and post the required notices and distribute the DEIRs.

As requested in the RFP all copies of the DEIR (as well as all other deliverables) will be double-sided, using back ink, and printed on recycled paper.

Task 3 Preparation of the Administrative Final EIR

Our proposal assumes that the Administrative Final EIR (AFEIR) document will consist of the entire DEIR, revised as necessary, Response to Comments, and appendices. Envicom Corporation will provide the County with five (5) copies of the AFEIR to the County (2 three-hole drilled, 2 bound, and one CD).

Response to Comments

Upon completion of the public review period for the DEIR, Envicom Corporation will prepare the Response to Comments (RTC) section of the FEIR. We will assign a number to each comment and identify the project team member responsible for providing a response. For repeated comments, topical responses may be provided up front and referenced in the responses to individual letters so as to avoid repetition.

Based on the comments received on the NOP/Initial Study, we anticipate that there may be numerous comments on the DEIR; however, the overall level of new comments is expected to be moderate in that potential comments are likely would likely center around a few key issues. Also, the scope of work associated with response to comments and revisions to the EIR cannot be known prior to receiving comments on the DEIR. An estimate has been made for purposes of the cost estimate provided in this proposal. However, we anticipate that the scope and cost for this task may be refined in consultation with the County when all comments are compiled following public review. Our proposal also assumes that no new technical analysis would be required as part of the response to comments effort.



EIR Revisions

In the event that any comments, responses, and/or analysis subsequent to the DEIR result in edits to the FEIR, these will be provided in a redline/strikethrough format or other format in which all edits made are clearly visible. We anticipate that there would be a minor level of revisions made to the EIR. Our proposal assumes that no new technical analysis would be required for the FEIR.

Task 4 Preparation of Final EIR

Upon receipt of the County's comments on the AFEIR, Envicom Corporation will revise the document accordingly and prepare a Screencheck FEIR so that the County can conduct a final review of the document before it is published. We will submit the Screencheck document to the County electronically. Following County review of the Screencheck FEIR, we will make any necessary final revisions to the document. Our proposal assumes that, for each of the two anticipated rounds of review, we receive one set of comments from the County, provided in a redline/ strikethrough format or another format in which all edits and comments are clearly visible. It is difficult to identify the level of effort for this task prior to receipt of the comments, however, an estimate is provided for purposes of this proposal. Our proposal assumes that the County will prepare required notices and distribute the FEIRs.

Findings (Optional Task)

Findings will be prepared at the time of the Screencheck FEIR in accordance with Sections 15091 and 15093 of the CEQA Guidelines and provided to the County prior to preparation of the FEIR and in a format acceptable to the County. Findings will be prepared on a time and materials basis with a not to exceed budget of 50 hours. The Findings is included as an optional task.

Deliverables for the Findings shall include two (2) unbound copies and one electronic version.

Final EIR Deliverables

We will provide the County with 55 copies of the FEIR as follows:

- 5 hard copies with appendices (in three-ring binders)
- 25 bound copies with appendices included on a CD in an envelope at the back of the documents
- 25 CDs (including graphics and appendices) in searchable .pdf format
- 15 separately bound copies of the appendices
- 1 electronic copy in Word format



Task 5

Management/Coordination/Administration

Envicom Corporation will maintain consistent communication and coordination with County staff during the preparation of the EIR. We anticipate that most of this will be accomplished via email and phone conversations, although meetings with County Staff are included in Task 6.

Task 6 Attend Meetings and Public Hearings

As requested in the RFP, our proposal provides budget to attend one kick-off meeting with County and other agency staff, and five additional staff or other agency meetings. Our cost proposal assumes attendance by the Project Manager at all six meetings and attendance by the Project Director and Project Advisor at up to four meetings.

The Envicom Corporation Project Manager, Director of Environmental Services, and/or Project Advisor, will also be present at up to four public hearings to provide input and participate in an advisory capacity as needed. Attendance at hearings would include making presentations and/or participating in an advisory capacity.

Should attendance by additional staff or additional meetings or hearings be required, the cost for this work would be billed on a time and materials basis, as would the preparation of materials for presentations.

General Description of Deliverables

All text documents, tables, charts and illustrations will be provided on 8.5' x 11" sized sheets, and on 11" x 17" where oversized illustrations are necessary. It is likely the EIR will involve two to three volumes, with volume one containing the EIR analysis and subsequent volumes containing technical appendices. Covers to all volumes (related documents) will be coordinated as a set. As requested in the RFP, all efforts will be made to reduce the size of the EIR analysis portion to less than 200 pages. Duplication of information and analysis will be avoided to the extent feasible. Hard copies of administrative, draft and final documents will be two-sided, black ink, and on white or light recycled stock paper.

Following completion of the Final EIR, we will provide the County with one set of CDs (or other electronic medium acceptable to the County), in Word, with the Daft and Final EIR, MMRP and appendices. Spreadsheets and/or other databases developed for the EIR will be included. GIS layers developed will be submitted electronically and compatible with ESRI's Arcview GIS software and registered to the Calfiornia State Plane NAD 83, Zone 5 coordinate system, units in feet and metadata will be compatible with the ArcCatalog .XML format.



Methodology for Analysis of Environmental Issues

In accordance with the scope of work set forth in the Revised Initial Study, the EIR will focus on the following environmental issues:

- Aesthetics
- Agricultural Resources
- Air Quality/Global Climate Change
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hydrology, Water Quality (including Wastewater) and Water Supply
- Hazards (including fire and blasting)
- Noise
- Energy
- Recreation
- Transportation/Circulation and Roads

The water quality issues raised in Section 7. Hazardous Materials and in Section 13. Wastewater of the Initial Study will be addressed in the water quality analysis provided in the Hydrology, Water Quality, and Water Supply section.

Each draft section of the EIR will be reviewed by Mr. Brian McCarthy to ensure consistency throughout. Ms. Lisa Ballin will conduct a detailed quality control review of the entire document and Mr. Greg Zitney will review the document for overall adequacy, defensibility, SMARA compliance, and other mining feasibility issues.

The following provides a summary of the scope of analysis for each of the EIR impact analyses.

Aesthetics

The project site and its surroundings are characterized as open space with moderate to steep terrain. There is an east-west trending canyon near the center of the site. The proposed mining activity would occur within approximately 60 acres of the 203 acres of open space within the two parcels that comprise the project site. Highway 58 crosses the southeast portion of the site, with the majority of the 203 acres occurring immediately to the northwest

Some Aesthetic Concerns Expressed by the Community:

- Visual character of the area
- Highway 58 is a potential scenic corridor
- View from Highway 101
- Impacts to/from "Scenic Historic Bridge"



of the Highway. The site is largely surrounded by undeveloped open space, with the Hanson Aggregate Quarry located less than one half mile to the northwest, the Salinas River less than one-half mile to the west, Moreno Creek to the south, opposite Highway 58 and the town of Santa Margarita approximately 2.25 miles to the northwest. Development in the area consists manly of low-density rural residential and ranch holdings.

The proposed project would alter site slopes and add industrial-related facilities to the area in the form of two water tanks, a truck scale and scale house, as well as equipment (excavators and bulldozers, crushers and sorting equipment) and stockpiled mined materials. While these facilities and operations would occur mainly toward the center of the site and would likely be blocked by intervening topography and vegetation, visual impacts would need to be assessed to determine the extent of the project's visibility from surrounding roadways (e.g. Highway 58) and public access areas, and its compatibility with the visual character of the surrounding area. Hours of Operations would generally occur during daylight hours, and the applicant has not requested nighttime lighting at this time. Therefore, our scope of work does not include analysis of nighttime lighting impacts.

The aesthetics section will be prepared by Jack Blok, Ph.D. of Envicom Corporation. Dr. Blok will conduct a field investigation and photo-document the site, its surroundings, and key views. He will use photo-simulations in conducting the impact assessment. These photo-simulations will be prepared by Ron Stevens of Interacta, Inc. Erin Evarts of Envicom Corporation will assist in graphic imaging and modeling.

Key factors to be considered in this analysis include the location, scale, and visual character/quality of the proposed facilities and alterations to the land surface and landforms. The aesthetics analysis will include the following tasks:

- Describe the existing visual character and quality of the project site and the immediate surroundings, utilizing photographs to help illustrate text.
- Identify and describe the quality of existing scenic views that include the project site.
- Determine the visibility (or confirm the non-visibility) of the proposed mining area, the project's equipment, facilities, and stockpiles from public view locations, primarily along Highway 58, including the historic bridge. We will also assess the site's potential visibility from Highway 101 and possibly from el Camino Real near Pine Lane.
- Prepare up to four photo-simulations that illustrate the project's effects from up to four key/representative view locations. Based on our preliminary review of the project's visibility, we suggest three photo-simulations from SR 58 (one from near Digger Pine Road), one from Highway 101, and one from El Camino Real near Pine Ave. Specific locations will be selected in consultation with the County. Surface models will be generated from topographic CAD files and consist of current topography and proposed



grading for each of the three phases. Screening trees will be placed per the re-vegetation plan. The cost estimate for these photo-simulations assumes the following data is provided:

- Autocad and PDF files of terrain with Z values (topo) existing and graded terrain for each phase.
- Autocad and PDF files of the landscape plan with locations and descriptions of proposed screening trees.
- High Resolution aerial photograph if available.
- We have provided as an optional task, the cost per additional simulation, if it is determined that more than four simulations are required.
- Evaluate the impact of the project on scenic vistas/features and its consistency with the visual character of the area.
- Include written analysis of impacts as they relate to relevant policies and standards.
- Identify measures necessary to mitigate potentially significant impacts. Measures may include landscape screening, restrictions on facility/equipment locations, etc.

Optional Items

(A detailed cost for any of these items can be provided upon request following further site investigations to analyze the duration and complexity of the overlay areas).

- Drive-by Video Simulation: Provide drive-by video simulations that will
 overlay the proposed development on top of actual video footage while
 driving by the site. This allows the viewer to better understand the potential
 impact that the project may have on travelers' views as they pass the site.
- Stop Action Video Simulation: Stop action drive-by video simulations will
 overlay the proposed development at specific stop action locations (similar
 to drive-by video simulation, except the model overlay is not continuous.).
- Site visibility analysis: Provide drive-by site visibility analysis by reviewing the 3D site model in conjunction with actual video recordings. The output of this option is a color-coded map that identifies where the site is visible along a given section of road and approximate durations.
- Interactive 3D application: Provide an application that allows the user
 to explore the potential visibility of the proposed development by moving
 through the 3D site model used to develop the photo simulations. The
 application is similar to the Google Earth application except that the camera
 is programmed to always look at the site while moving along specific roads.



Agricultural Resources

The proposed project would have the potential to adversely affect neighboring agricultural operations. The project site is located within the County's Rural Lands category. The site is not classified by the State as Prime Farmland or Farmland of Statewide Importance. Reclamation of the site post-mining would return the disturbed areas to open space. There is the potential for mining-related impacts to surrounding agricultural activities through the off-site spread of weeds from the transport of seeds, which could result in reduced yields, increased pesticide

Some Agricultural Resources Concerns Expressed by the Community:

- Impacts to agricultural use of other properties
- Blasting disturbances to livestock and domestic animals
- Dust and air contaminants effects on agriculture

use, increased wildfire threats and increased erosion or flooding. The operations may also result in dust from excavation and processing, as well as from truck traffic, which could affect agricultural uses through the spread of vectors such as dust mites and/or cause livestock to health risks such as Valley Fever.

The Agricultural Resources section of the EIR will be prepared by Jack Blok, Ph.D. of Envicom Corporation. Dr. Blok will coordinate with Hans Giroux of Giroux and Associates to incorporate the air quality issues with associated effects on agricultural resources.

Analysis of impacts to agriculture will include:

- Describe existing agricultural resources and uses at, and surrounding, the project site.
- Prepare graphics to illustrate the proximity of adjacent agricultural production to the proposed project operations.
- Determine impacts of mining operations on adjacent agricultural operations/ production, such as dust impacts to adjoining productive farmland. This would involve evaluating the potential for the project to spread weeds in the area, resulting in adverse impacts to agriculture including reduced yields, increased pesticide use, increased wildfire threats, and increased erosion and/or flooding. We will review and incorporate issues raised in the Office of Mine Reclamation (OMR) letter (Department of Conservation, July 16, 2010) and SMARA weed management requirements (CCR3705(k)) as necessary.
- Assess ordinance and policy consistency (e.g. Agriculture Policy 18: Location of Improvements) for protection of agricultural resources.
- Consultant with the County Agriculture Department to assist in identifying any impacts.
- Assess indirect impacts related to access points and haul routes that might have the potential to impact agricultural production.
- Identify mitigation measures to reduce or avoid significant impacts.



Air Quality and Global Climate Change

The proposed project would result in potential air quality impacts related to on-site excavations, operation of equipment and machinery, off-site truck hauling, and employee trip generation. The focus on this analysis will center on fugitive dust and vehicle and equipment emissions. The San Luis Obispo County Air Pollution Control District's (APCD's) CEQA Air Quality Handbook will be used to evaluate project specific impacts, and the project's consistency with APCD's Clean Air Plan will be reviewed. The Air Resources Board (ARB) guidance document titled "Air Quality and Land Use Handbook" (ARB Handbook) will also be used where appropriate.

The Air Quality and Global Climate Change section will be prepared by Brian McCarthy of Envicom Corporation. Mr. McCarthy will rely on technical analyses prepared by Hans Giroux of Giroux and Associates.

In assessing the project's air emissions we will:

- Provide a description of the atmospheric meteorological setting and existing air quality conditions in the project area based on data from the San Luis Obispo County APCD air monitoring station in SLO. We will identify the relevant input parameters assumed in the most recent Clean Air Plan (CAP) related to the proposed action as a basis for a subsequent consistency determination.
- Obtain data on proposed mining equipment, quantities, and processes as well as truck and other vehicular traffic generated by the proposed project.
- Perform screening level impact assessments, and coordinate with SLO APCD staff on the appropriate analysis
 - protocols based, in part, on the initial screening level analysis.
- Calculate project-related operational air quality emissions generated by mining and processing operations and mobile sources using the ARB URBEMIS2007 (or OFFROAD2007 where appropriate) computer model. Air emissions include fugitive dust and tailpipe emissions from off-road equipment used to mine and transport aggregate material onsite; fugitive dust from material processing equipment (crushers, screens, power generation, etc.); road dust and tailpipe emissions from product haul trucks, recycled material trucks, and employee vehicles, and emissions associated with drilling and blasting activities.

Some Air Quality Concerns Expressed by the Community:

- Greenhouse Gas Emissions
- Loss of vegetation uptake of carbon dioxide
- Impacts from crystalline silica
- Valley Fever impacts from soil disturbance
- Dust from processing, crushing and screening equipment
- Wind speeds and dust control measures and enforcement
- Dust from transport of mined material
- Delivery of additional hazardous materials
- · Mitigation Monitoring and enforcement



- Evaluate whether project-related emissions meet or exceed the thresholds identified in the SLO County APCD CEQA Air Quality Handbook (last revised December, 2009).
- Identify mitigation measures for significant impacts.

Toxic air contaminants (TACs) will be estimated. Diesel particulate matter (DPM) is expected to be a TAC of particular concern. In estimating TACs we will:

- Estimate DPM emissions associated with use of off-road heavy equipment for extraction and on-road hauling. Perform a health risk screening analysis using either the U.S. EPA ISCST3 dispersion model with screening meteorological data or the U.S. EPA AERMOD dispersion model if actual monitored meteorological data acceptable to the SLO County APCD are available in a model-ready format.
- Although the risk assessment modeling will be focused on TACs, maximum off-site modeled concentrations (including background concentrations if provided by the SLO County APCD) will be calculated and compare to appropriate California and federal Ambient Air Quality Standards for criteria air pollutants.
- Estimate lifetime excess cancer risk at locations with occupational worker or residential receptors using methods recommended by the California Office of Environmental Health Hazard Assessment (Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments, October 2003).
- TAC concentrations will be adjusted using age sensitivity factors (ASFs) consistent with the most recent OEHHA Technical Support Document (TSD) for risk assessments (2009).
- Compare findings to the APCD's significance thresholds of an excess individual cancer risk of 10 in a million or acute or chronic health indices greater than 1.0.

Other important components to our Air Quality analysis will include:

- Potential localized impact from onsite activities such as potential dispersion of fungus spoors associated with Valley Fever.
- Identification and mitigation requirements will be discussed should Naturally Occurring Asbestos (NOA) be present within the aggregate resource.
- Discuss project consistency with the San Luis Obispo County Clean Air Plan (CAP).
- Discuss the potential effects of cumulative development such as the two other quarry projects currently in operation.
- A mitigation plan will be developed for any potentially significant impacts.
 The guiding mitigation principles will be based upon the definition of best
 available control technology (BACT) used by the SLO APCD or by any
 other California airquality control jurisdictions.



Global Climate Change

The EIR will include a discussion of global climate change and an assessment of the project's contribution to this issue. The analysis will include a calculation of project-related greenhouse gas (GHG) emissions. It will also take into consideration the project's potential to reduce vehicle miles traveled by providing a local source of decomposed granite and granite aggregate for development activities within the County. We will identify an appropriate threshold of significance based on CEQA guidance and review of applicable thresholds identified by CARB and other air quality agencies. Mitigation of GHG impacts will be based upon the menu of mitigation options advanced by the California Air Pollution Control Officers Association (CAPCOA) or the California Office of the Attorney General.

Biological Resources

A prior biological assessment of the project site by LFR (2009) identified sensitive plant communities and special-status plant and wildlife species in the mining impact area within the project site. The biological assessment also identified this portion of the site as suitable habitat for several additional potentially occurring special-status species. Locally important biological resources such as native oak trees and oak woodlands are known to occur at the site, and a drainage supporting wetland vegetation and riparian habitat flows within the mining area boundary. The drainage is tributary to the Salinas River, which contains sensitive riparian plant communities and provides habitat for several protected wildlife species.

Some Biological Resources Concerns Expressed by the Community:

- · Loss of unique and special status species
- Wetland or riparian habitat within Salinas River
- Field surveys during appropriate times of the year
- Monitor and enforcement of mitigation for sensitive species

The Biological Resources section will be prepared by James Anderson of Envicom Corporation. Field surveys and research will be conducted by Carl Wishner and James Anderson of Envicom Corporation.

The Biological Resources section of the EIR will establish baseline existing conditions and will include an independent impact analysis with respect to:

- 1) Unique or special-status species or their habitats;
- 2) The extent, diversity or quality of native or other important vegetation, including sensitive natural communities;
- Wetland or riparian habitat, including areas under the jurisdiction of responsible agencies; and,
- 4) Wildlife movement, including barriers to movement of resident and migratory wildlife species, as well as factors that could hinder the normal activities of wildlife.



The biological assessment by LFR (2009) provides a comprehensive analysis of the site's biological resources and defines the existing conditions at the date of the study. Envicom Corporation biologists will peer review and update this study as a starting point for our analysis.

We will prepare the Biological Resources section based on the following tasks:

- A literature review that includes updated search and/or review of the following:
- California Natural Diversity Database (CNDDB) and the California Native Plant Society (CNPS) Inventory Database for special-status and sensitive "elements" known to occur at or in the vicinity of the site;
- California Department of Fish and Game (CDFG) Special Vascular Plants, Bryophytes, and Lichens List;
- CDFG Special Animals List;
- CDFG List of California Vegetation Alliances, CDFG List of California Terrestrial Natural Communities Recognized by the California Natural Diversity Database, and The Manual of California Vegetation, 2nd ed.;
- Federal, state and local policies and planning documents pertaining to biological resources, including the San Luis Obispo County Draft Conservation and Open Space Element; and
- Available background data or documents concerning biological resources of the project area and region.
- A peer review of the following documents submitted by the applicant:
 - Sensitive Species and Habitat Survey for the Las Pilitas Rock Quarry, LFR, October 2009.
 - Las Pilitas Rock Quarry Tree Plan, Tartaglia Engineering, September 2009.
 - Las Pilitas Rock Quarry Revegetation Plan, Tartaglia Engineering, September 2009.
- An updated assessment of the potential for occurrence of special-status plant and wildlife species and sensitive natural communities at the site, based on current site conditions and new information on species or sensitive plant community status, occurrence, and distribution from the CNDDB, CNPS and other sources.
- Envicom Corporation biologists will conduct a field survey to evaluate current conditions and conduct a search for special-status species or sensitive and unique habitats at the site. Field surveys will be conducted during periods when potentially occurring special-status species can be found and identified. Vascular plant surveys will be conducted within the mining impact area and within a 100-foot buffer, as well as in surrounding areas that may be indirectly affected by the project. General wildlife surveys will also be conducted at and in the vicinity of the mining impact area.



- Resource mapping of vegetation based on the classification system
 of natural community Alliances and Associations used by the CDFG
 Vegetation Classification and Mapping Program, as well as mapping of land
 cover, CDFG riparian habitat, other special habitats, oak woodlands and
 individual native trees and locations of any special-status species found at
 the mining impact area.
- Peer review of LFR's assessment that the site lacks areas subject to the regulatory jurisdiction of the Army Corps of Engineers (ACOE) as wetland or non-wetland Waters of the U.S. An ACOE jurisdictional delineation is not included in our initial scope of work. However, the anticipated costs of an ACOE delineation have been provided in the case a delineation is deemed necessary.
- An independent evaluation and analysis of project construction, operational, and cumulative impacts, and incorporation of mitigation measures to reduce significant or potentially significant impacts to less than significant levels. The applicant's reclamation plan to restore the site to native vegetation following completion of mining activities will be considered when evaluating impacts and incorporating mitigation measures. Direct and indirect impacts of the project will be considered, including any potential indirect impacts to biological resources downstream from the project site, as applicable (e.g. Salinas River). Effects of changes in hydrology on biological resources due to slope alteration and vegetation clearance will be considered in conjunction with the hydrological analysis to be prepared in the Hydrology, Water Quality, and Water Supply section as discussed below.
- Envicom Corporation will identify mitigation measures for each of the project's impacts. Mitigation will be based on a hierarchy of first avoidance, followed by minimization, restoration, reduction and compensation. Any restoration and monitoring will include clear and measureable success and monitoring criteria.

Cultural Resources

The project site is within an area that is considered culturally sensitive due to historical occupation of the general area and physical features of the property. The site is relatively undisturbed (except for dirt roads) and is within the upper Salinas River Valley. The Salinas River, located to the south, is within 300 feet of the project site. The Obispeno Chumash and Salinan have historically occupied the Salinas River Valley. A Phase I Archaeological Survey (Heritage Discoveries, Inc., 2009) was conducted for the project on behalf of the applicant, which involved field investigations of the areas

Some Cultural Resources Concerns Expressed by the Community:

- Cultural history significance of the area
- Native American consultation
- Impacts from both on-site and off-site grading
- Potential for the presence of a historic Salinas Resouvoir Dam workers camp



proposed for disturbance, as well as records search for known archaeological resource sites in the area. The investigation did not find archaeological resources sites within the proposed disturbance boundary. The records search found that archaeological resource sites are located near water sources in the area of the Salinas River Valley, but not within the proposed project area. The report suggests that no further investigation is warranted unless disturbances extend beyond the proposed mining boundary, and the no mitigation is necessary at this time. The Initial Study provides that the site is not sensitive for paleontological resources.

Erin Evarts of Envicom Corporation will prepare the Cultural Resource section of the EIR based on the Heritage Discoveries Report and a third party review conducted by David Brunzell of BCR Consulting.

Our proposed scope of work includes:

- Conduct a third party review of the Heritage Discoveries, Inc. 2009
 Archaeological Investigation Report for compliance with CEQA. Any
 discovered errors, omissions, and recommendations for additional
 investigations will be provided in a comments matrix and will be rectified in
 a letter-report as an addendum to the original study.
- The Heritage Discoveries Report will be predominantly relied upon to develop the EIR analysis.
- Incorporate concerns of the Native American Heritage Commission (NAHC)
 NOP letter dated July 13, 2010, including consultation with local Chumash
 representatives and a Sacred Lands File Check to ascertain whether
 there is knowledge of any cultural resources within the project boundaries.
 Consultation will include one letter to the NAHC and one mailing to each
 listed local tribe or individual and a follow-up phone conversation with each
 tribe or individual. Results of these items will be included in a letter report.
- Identify mitigation measures to avoid potential impacts to resources if
 present at the site. For example, a possible mitigation measure could
 include a field investigation prior to initiation of mining in each of the four
 phases and procedures to be followed in the event something is uncovered
 during the life of the mining operation.

Geology and Soils

The project site topography ranges from moderately sloping to steeply sloping with soil types (Cieneba-Andregg coarse sandy loams, Metz loamy sand and Xerofluvents-Riverwash association) that are moderately erosive. Potential geology impacts would include seismic shaking, landslides/slope stability, erosion, differential settlement, soil/stockpile stability, excavation characteristics, and other mining-related considerations. The following factors and related issues will be considered in the impacts evaluation:



- Ground disturbance and stability
- Soil erosion and placement of topsoil stockpiles to avoid sedimentation of water courses
- Slope geometry (steepness and height);
- Geotechnical and earthquake conditions;
- Topography and surface water flow patterns around and through the site;
- Depths to historical and anticipated high ground water levels;

characteristics

Unstable soil conditions

Erosion

Some of the Geology and Soil

the Community:

· Changes in drainage and surface run-off

Concerns Expressed by

- Presence of buildings, utilities, and surcharges in the vicinity of the slopes;
- Examples of past slope performance and erosion.

The Geology and Soils section of the EIR will be prepared by Brian McCarthy with input from Ken Wilson of Wilson Geosciences, Inc. The EIR section will be based on the Engineering Geology Investigation prepared by Geosolutions, Inc. and a third party review conducted by Ken Wilson.

The specific tasks include:

- Conduct an independent peer review and reconnaissance-level field verification of surface conditions provided in the Engineering Geology Investigation (GeoSolutions, Inc. July 14, 2009) prepared for the projects site.
- Review the applicant's Blasting Plan (Gasch & Associates, December 8, 2009).
- Collect and review other readily available geologic and geotechnical information associated with the area.
- Evaluate impacts for the site factors determined (e.g., those listed above).
- Develop feasible mitigation measures (and monitoring methods) to reduce all potentially significant impacts to less than significant.

Hydrology, Water Quality, and Water Supply

The project site is characterized by moderately steep to steep terrain, with a central east-west oriented valley that drains west to the Salinas River. Excavation would occur between the two ridgelines that bound this valley. The following factors and related issues will be considered in the impacts evaluation:

 Effects of mining, road construction, and infrastructure development (e.g., water tanks) on post-project storm runoff rates, directions, and volumes and the capacity of the proposed stormwater detention system to avoid local and off-site flooding;

- Effects of erosion from mining and internal/access road construction on post-project water quality of storm runoff (i.e., turbidity and suspended sediment) to local wetlands and stream channels, Moreno Creek and the Salinas River;
- Effects of mining and reclamation activities on the water quality of storm runoff to local wetlands and stream channels, Moreno Creek and the Salinas River, from factors other than erosion (e.g., temperature, dissolved oxygen) and pollutants (e.g., fertilizers, pesticides, oil and grease);
- Potential changes in the quantity and/or quality of groundwater recharge resulting from excavation into a currently undisturbed area, reclamation activities (fertilizers and pesticides), or wastewater disposal (nitrogen); and
- Potential changes in local surface water and groundwater flow directions and effects on water budgets for local wetlands, stream channels and riparian habitat.

Some of the Hydrology and Water Quality and Supply Concerns Expressed by the Community:

- Water table effects and effects on wells in the surrounding area
- Residue from explosives, spilled fuel, and other chemicals
- Siltation of the Salinas River or other water courses
- Water consumption rates
- Washing of aggregate
- Water quality and availability
- Water rights
- Water supply impacts on the community
- Mitigation monitoring and enforcement for water use including washing

A limited area in the southwestern portion of the site has been mapped by FEMA as within the100-year flood zone of the Salinas River. As this area will not be disturbed by the proposed project, potential impacts are considered to be insignificant.

The EIR section will be prepared by James Anderson of Envicom Corporation. Mr. Anderson will coordinate with Chris White of Balance Hydrologics, Inc. and rely upon the technical report and analysis to be prepared by Balance Hydrologics, Inc.



This analysis will include the following tasks:

Perform background research and visit the project site

We will review available regional and site-specific information (e.g., soils, geology, rainfall) on the hydrology and geology of the quarry area, including the project geology report and drainage calculations for stormwater management, geologic maps and agency publications (CA Division of Mines and Geology, USGS, etc.), and historic and contemporary aerial photography. We will perform a reconnaissance visit to the project site to observe existing conditions related to existing drainage patterns, stream channels, riparian and seasonal wetlands and existing roads. We will query local and regional agency staff (e.g., County and Regional Board) about the planned mining program and the approaches proposed for addressing potential hydrologic and water quality impacts, including assessments of impacts and efficacy of mitigation at the Santa Margarita quarry, as well as Cal Portland's Rocky Canyon quarry, also developed in similar materials.

Regulatory setting

We will identify and summarize the relevant regulations and guidance related to groundwater and surface water protection from mining activities, including stormwater quality and quantity management. These sources include federal and state regulations, such as the Clean Water Act, Porter-Cologne Act and Surface Mining and Reclamation Act (SMARA), and related permit programs administered by the Office of Mine Reclamation (e.g. SMARA), State Water Resources Control Board (NPDES permits for stormwater runoff and construction activities), Central Coast office of the Regional Water Quality Control Board (Basin Plan compliance; groundwater protection) and FEMA (flood control). County and regional guidance and ordinances provide the framework for management of stormwater and compliance with mandated water quality programs, including design and use of stormwater control facilities, conditioning discharges into receiving waters, and mandating protection of surface water and groundwater quality and quantities.

Mining is one of the 10 categories covered by the NPDES Industrial General Permit for stormwater discharges (1997), which is currently being revised (2005 draft). The project will also need to comply with the revised NPDES permit for Construction General Activities adopted in Sept. 2009 and effective July 1 of this year, including development of a Rain Event Action Plan (REAP) and a Storm Water Pollution Prevention Plan (SWPPP) to guide water quality protection during the construction and post-construction phases of the project.

 Rainfall-runoff analysis (runoff quantity, drainage system capacity and downstream flooding)



We will review the project drainage report (Tartaglia Engineering, 2009) and calculations related to stormwater management. The Initial Study states that the mined slopes would be finished at 1.5:1, with 25-foot wide benches every 50 vertical feet. Slopes would be graded to drain back towards the hillside, where stormwater runoff (and sediment) would be retained, or directed through swales and ditches to basins for detention and/or infiltration. Graphics show two permanent detention basins would be constructed at the project outset and remain through site closure roughly 30 years later. One basin is located where the project access road joins Highway 58, and the other is near the mouth of the valley, downstream from the mining area. As mining proceeds from the center of the site to the north and northeast, a third detention basin would be constructed, then enlarged, to serve operations during mining phases 2A and 2B. When this area has been excavated, a new basin would be constructed further to the northwest, then enlarged as well, to capture runoff from the phase 3A, 3B and Final mining areas.

Control of drainage will be evaluated for consistency with local (San Luis Obispo County) and regional regulatory criteria for stormwater quantity management. We will evaluate the suitability of the proposed drainage system to control velocities, minimize downstream erosion and avoid contributions to flooding in the drainage network leading to the Salinas River, as well as the portion of the site draining to Moreno Creek. We will also assess the feasibility of measures proposed to maintain flows to preserve wetlands and stream channels.

We will use conventional methods to calculate the likely changes in peak flows resulting from mining as planned/phased. We will review the stormwater calculations and independently estimate the preliminary detention requirements for design storms, such as the 100-year recurrence interval event. We will assess the need for additional measures to maintain or reduce peak flows from the design storms and avoid flooding downstream. If appropriate, we will recommend additional measures that could be installed or implemented to mitigate potential construction-period and post-construction impacts on peak flows.

Water quality (surface runoff)

According to the Initial Study, the shallow topsoil would be stripped and reserved for reclamation, leaving barren bedrock slopes with low risk of erosion. As described above, stormwater runoff would be routed to detention basins to control peak flows and retain sediment. During this stage (active mining), the primary risk of erosion would be from stockpiled topsoil, spoils and mined materials. Guidance for effective protection of these stockpiles are contained in the portions of the County's Land Use Ordinance addressing sedimentation and erosion control, and in the NPDES Construction and Industrial General permits. The project will be

required to prepare an Erosion and Sediment Control Plan, a SWPPP and other stormwater management documents required by the County and Regional Board.

Other than sediment, the primary constituents of potential concern in runoff from the quarry would be chemical contaminants, such as petroleum products (fuel; lubricants) from mining and processing equipment and from operation of the asphalt and concrete recycling plants. If untreated, runoff from the site could degrade water quality in downstream wetlands, Moreno Creek, and the Salinas River.

We will characterize the pollutants of concern under existing conditions (undisturbed lands with dirt roads) and following quarry development and expansion. We will review available monitoring data from runoff water quality sampling at the Hanson Aggregate granite quarry just northwest of the project site. We will also review the project site designs and engineering reports for consistency with regulatory criteria and suitability of water quality treatment measures proposed to avoid off-site impacts. Where applicable, we will identify additional opportunities and constraints that bracket selection of BMPs and recommend further measures that are appropriate for the project.

Groundwater recharge (volumes and flow directions)

The extent of existing groundwater recharge on the currently undisturbed project site is unknown but development of a quarry could lead to changes in the quantity (volume) of groundwater recharge and/or modify groundwater flow paths. This could potentially reduce recharge to the local aquifer and the Salinas River, affecting the local water supply, as well as hydrologic support for downgradient wetlands and stream channels. As currently proposed, some portion of the runoff from operating portions of the quarry would be routed to detention basins in other areas of the site, where some fraction would be retained and potentially infiltrated with the remainder released downstream. Our hydrogeologic analysis will consider data from local wells, geology reports and measurements and observations from our reconnaissance visit, in conjunction with the applicant's site plan and drainage study, to assess potential project impacts on groundwater recharge and evaluate the likelihood of infiltration from the proposed detention basin sites. If appropriate, we will recommend additional mitigation measures to maintain pre-development volumes and quality of recharge.

Hydrologic support for wetlands and stream channels (groundwater and surface water)

Either re-directing surface runoff or lowering groundwater levels significantly could reduce hydrologic support to local wetlands, such as the existing vernal swales, or the riparian wetlands and stream channels draining the un-mined portions of the central valley and/or south-facing slopes north



of Highway 58. Changes to the amount or timing of flows would result in modified water budgets and potential adverse effects on habitat and resource quality. In this task, we will use the water balance approach to examine how the proposed operation might modify the amount of recharge reaching local features and, if appropriate, identify suitable mitigation measures to retain hydrologic support and avoid or minimize potential impacts as mining proceeds. Historic aerial photography will be reviewed to better understand wetland and riparian response to periods of wet and dry years. Water budgets will be prepared for wet, normal, dry, and (if necessary) critically-dry years.

Ground water recharge (quality)

Potential impacts on groundwater quality originate from two sources: mining operations and operation of the on-site septic system for wastewater disposal.

All of the constituents present in surface runoff from the site, except sediment, could potentially infiltrate and contribute to pollution of local groundwater. Changes in the quantity of local recharge will be assessed in the above tasks through review of local geologic and hydrogeologic conditions, field reconnaissance, aerial photography and water budgeting. Using this information, we will evaluate the potential for mobilization of some or all of these pollutants into groundwater and recommend additional mitigation measures, if needed, suitable for maintaining water quality of recharge to the local aquifer.

While the Agricultural Resource section of the Initial Study describes local soils as generally shallow (depth to bedrock), steeply sloped and potentially constrained by drainage or flooding, the Wastewater section concludes that there are areas of the site where an existing wastewater system could be expanded or a new one constructed to meet the criteria in the County's Land Use Ordinance with respect to soil depth, percolation rates, slope, depth above seasonally-high groundwater, and distance from 100-year flood zones, stream channels and wells. We will review the septic system proposed for project use for consistency with local plumbing codes, the Land Use Ordinance, and other regulatory guidance. Based on the location, design, proposed loading and the local hydrogeologic setting (soils, geology, rainfall recharge, aquifer characteristics), we will assess potential risk of impacts from system failure (daylighting effluent), short-circuiting (via bedrock fractures), and nitrogen loading to the aquifer (methemoglobinemia or "blue baby" disease). If appropriate, we will recommend additional mitigation measures for wastewater disposal to avoid these impacts and maintain the quality of groundwater.

Water supply

We understand that the original Initial Study estimated project water use at 20,000 gallons per day (gpd) of groundwater pumped from an on-site well, primarily for washing excavated materials. However, the Revised Initial Study to which we responded provided no estimated water use but stated that materials would be sorted and not washed prior to export. Accordingly, pending receipt of a revised estimate of project water demand from the applicant, our scope assumes pumping rates of about 3,000 gpd solely for dust control, domestic supply (potable and sanitary), and minor/incidental uses during mining operations, and reclamation once production has ceased. We further assume that the County would provide boring logs for the project well and other nearby wells, and that the applicant could provide some data on recent usage and, perhaps, pump test results as well. This information, in combination with aerial photography review, regional climate data, regional soils (NRCS) and geology (CDMG) reports, and our extensive experience in bedrock aquifer environments, would be sufficient to assess potential impacts of planned withdrawals, evaluate the feasibility of applicant-proposed mitigation measures, and recommend additional mitigation as needed. Key aspects of this assessment will include: (1) The well is constructed in granitic bedrock. We have found that observed variability in granitic bedrock aquifer properties in coastal California does not significantly change with choice of management alternatives, so using data on specific capacities (the water yield per foot of well drawdown) from the Rocky Canyon Quarry, the nearby Santa Margarita Quarry, and local wells will be appropriate; (2) The suitability of an approach based on analysis of bedrock aguifer properties is supported by the lack of evidence of perched aquifers, based on the project engineering geology study (GeoSolutions, 2009) reporting no groundwater encountered in trenches and borings to a depth of 84 feet below ground surface, and our preliminary review of local aerial photography revealing no evidence of perched aquifers, such as seep- and spring-supported wetlands outside riparian corridors; and (3) Additional groundwater losses beyond project use will not be incurred by exposure of the aguifer, as the lowest proposed elevation in the constructed project is 1,083 feet in a detention basin, more than 100 feet above the elevation of the Salinas River.

Balance Hydrologics, Inc. staff have assessed the need for recharge to replace water lost to mining at a number of other facilities throughout the state, including multiple sites in Santa Cruz County (at Felton, Bonnie Doon, and the Scotts Valley sand quarries) and in Santa Barbara County, at the Sisquoc Plant. Mining-related activities, such as blasting, grading and benching steep slopes, and detention of stormwater runoff will tend to increase recharge over present amounts but typically only partially-mitigate for increased withdrawals due to operations.



As part of the EIR, we anticipate recommending a mitigation measure that outlines a "life-of-mine" groundwater replenishment program to avoid aggravating water shortages. Replacing lost recharge through this type of comprehensive, integrated program employs a balanced set of alternative strategies, combining conservation approaches and passive recharge facilities, thereby allowing the applicant flexibility in mitigation approach.

Optional Water Supply Task

Groundwater Replenishment Mitigation Program: If the County and the applicant would prefer that we fully develop a detailed Groundwater Replenishment Program as a possible mitigation (beyond just a recommended measure), we will submit a separate detailed scope describing this optional task, encompassing all phases of mining from clearing and stripping through post-mine reclamation. The level of effort can vary depending the detail and number of mitigating options.

Hazards

This section will discuss the potential project impacts associated with fire, dam inundation, and blasting hazards. It will be prepared by Jack Block, Ph. D of Envicom Corporation and Brian McCarthy. Water quality issues related to the storage and use of hazardous chemicals and the Storm Water Pollution Prevention Plan (SWPPP) will be addressed in the Hydrology, Water Quality and Water Supply section, as described above.

Fire Hazards

The project site is within a Very High Fire Hazard Severity Zone, and is subject to wildland fires. The step terrain, flammable vegetation (e.g. chaparral, coat live oak woodland, foothill woodland, sage scrub and annual grassland), potential for high winds, dry seasons and remote location are all contributing factors to the fire safety of the project site. County Parkhill Station No. 40 would service the site, and it is anticipated that the response time would be between 5 and 10 minutes. Although the project would not introduce habitable structures into the Zone or impede an evacuation plan and would be subject to the Fire Code, there is a potential that the project could increase the likelihood of a fire in the area. Per County Fire Department Review (letter dated July 9, 2010), in addition to compliance with California Fire Code, California Building Code, and Public Resources Code pertaining to fire protection, there are specific measures that should be included in the project to minimize the potential for fire hazards. The EIR analysis will include a discussion of the project site and surroundings as they pertain to fire hazards, such as vegetation, slopes, climate and fire history. Components of the project that have the potential to spark wildfires will be identified.

We will incorporate concerns and mitigation provided in the County Fire Department response to the NOP letter dated July 9, 2010.

Dam Inundation Zone

The Salinas River is located 0.25 mile southwest of the proposed mining area. The project site is within the Salinas River/Santa Margarita Reservoir Dam Inundation Zone (i.e., within 500 feet of the Salinas River centerline), and as such, could be affected should there be a catastrophic failure of an upstream dam causing hazardous floodwaters at the project site. Our review will include evaluation of sedimentation within and upstream of the reservoir based on Glysson's classic USGS report (1977) and subsequent updates of sediment-prism growth by the San Luis Obispo County Public Works Department. The EIR will include a review of the inundation maps prepared for the Division of Safety of Dams (DSOD) in conjunction with the site plan, a discussion of applicable regulations, and identification of potential impacts. Mitigation will be developed, if needed, to ensure safety of mine employees and in accordance with State Office of Emergency Services.

Blasting

In instances where blasting is necessary to loosen consolidate aggregate, blasting would include drilling into the aggregate material and placing of explosives within the drilled holes before they are detonated. A California Licensed Blaster would conduct the blasting activity. The applicant's General Blast Plan and Vibration Predictions Pan (Gasch & Associates, December 8, 2009) provides details for carrying out the blasting program. The blasting plan will be described in detail along with applicable regulations that are intended to address potential safety impacts on the project employees and neighboring properties. This section will focus on regulatory compliance and enforcement/oversight during project operations. Blasting will also be discussed in the Geology and Soils and Noise and Vibration sections; the reader will be referred to those sections for issues related to geology, noise, and vibration. Recommendations for the blasting activities will consider:

- Controlled blasting techniques
- Site inspections
- Safety meetings
- Loading of explosives
- Hours of blasting activity
- Drilling operations
- Post blast safety procedures
- Pre-blast notification and survey
- Blasting safety plan
- Blasting Site security
- Safety requirements for ignition systems



- Safety blasting site preparation
- Blast warning signs/signals
- Safe blasting procedures in accordance with regulatory agencies

Noise and Vibration

The two main noise sources in the immediate project vicinity include Highway 58 traffic and the Hansen Aggregate Quarry to the northwest. The project would add on- and off-site noise sources to the open space/agricultural setting of the project area and roadways through the residential community of Santa Margarita. These sources include heavy equipment operation and truck traffic. Equipment operations would include the use of a wheel loader, hydraulic excavator and/or bulldozer, and a screening and crushing plant to extract and process granite. Trucks would enter the site from Calf Canyon Highway (Highway 58) and would be loaded with a frontend loader before being weighed and exiting back onto Calf Canyon Highway. The large majority of traffic would travel south on Calf Canyon Highway to Highway

Some Noise Concerns Expressed by the Community:

- · Noise impacts on quality of life
- Operating hours / days
- Truck noise
- Cumulative noise impacts
- Noise transmission from changes in site topography
- Vibration potential to crack foundations or wells in the area
- Monitoring and enforcement of noise mitigation

101. This route would involve truck trips through the community of Santa Margarita. Residential uses occur along the proposed truck route near the project site entrance (Calf Canyon Highway) and in greater densities in the Santa Margarita community aligning the El Camino Real stretch of Highway 58. Operations on-site would increase ambient noise levels in the area of the mining potentially causing impacts to sensitive receptors in the vicinity of the project site, as well as truck traffic noise along the haul routes.

According to the project description, operations would occur during daytime hours between 6:00 a.m. to 5:00 p.m. Monday through Friday with up to 198 one-way truck trips per day and 10 employee trips.

The nearest residential unit is located approximately 300 feet southeast of the mine's extraction area near the entrance of the site. This residence is within the project boundaries and is associated with the proposed operations. The closest residence outside the project site is located approximately 1,699 feet away. The existing noise study (Dubbink, 2010) found that daytime noise from the project could exceed 50 dB standards for nearby residences. Blasting would exceed County standards for impulsive noise. Residential uses are also located along the proposed haul route. The impacts of the proposed project upon ambient noise levels experienced by sensitive receptors due to long-term operation of the project (30 years) will be evaluated in the EIR.



The noise analysis will include an assessment of the noise environment in terms of existing noise levels as well as the locations of the nearest noise-sensitive receptors. The impact analysis will assess whether the mining operation and trucking levels would result in significant impacts on these receptors.

The Noise section will be prepared by Brian McCarthy of Envicom Corporation. Mr. McCarthy will rely on technical analyses prepared by Hans Giroux of Giroux and Associates, which will involve the following tasks:

- Conduct a third party review of the applicant prepared noise analysis, Noise Analysis Las Pilitas Rock Quarry (David Dubbink Associates, January 26, 2010).
- Develop a baseline truck traffic noise exposure profile in terms of the CNEL noise metric using the FHWA Model with the latest California vehicle noise curves (CALVENO) based upon project truck traffic volumes.
- Evaluate long-term noise exposure (i.e. 30 years) from material extraction, processing and hauling associated both with trucking activity and operation of heavy equipment.
- Evaluate the Blasting Plan and Vibration Predictions provided in the Gasch & Associates, December 8, 2009 report. Because of both the real and perceived issue of noise and vibration from quarry blasting, there are numerous state and federal regulatory constraints as to the overpressure and vibration that may be generated by such activity. These constraints are expressed in a parameter called a "scaled distance" (the closer the receptor, the tighter the constraint). This limits the amount of allowed explosive, and requires that a specified number of blasts be tested to verify compliance. Our experience has been that compliance with these limits will prevent any structural damage and minimize the nuisance impact. The Blasting Plan will be reviewed for adequacy and compliance with applicable federal, state, and local regulations.
- Assess special noise issues such as back-up alarms, blasting, recycled concrete and asphalt crushing, or predicted noise generation of the project based on truck traffic generation and future cumulative traffic assumptions.
- Relate project noise impacts to the Noise Element noise/land use compatibility guidelines in the San Luis Obispo County General Plan Noise Element and the County Land Use Ordinance (County, 2008) and other applicable noise exposure regulations.
- Include, revise and/or supplement the mitigation measures provided in the Noise Analysis as necessary to reduce potentially significant noise impacts to less than significant levels.



Energy

The project will consume energy as a result of heavy earthmoving equipment such as a wheel loader, hydraulic excavator and/or bulldozer, and front-end loader. Recycling operations will utilize portable crushing and screening equipment. In addition, truck traffic will consume fuel for the delivery of mined products in the market place, generating 198 truck trips per day. Envicom will evaluate the project in light of CEQA Appendix F: Energy Conservation and in conjunction with the Air Quality analysis.

The Energy section will be prepared by Charles Cohn of Envicom Corporation.

The scope of the Energy analysis will consider the following:

- Detail of energy consuming equipment that would be required for the project.
- Estimate energy requirements of the project based on fuel type.
- Identify energy supplies and the project impacts on those resources.
- Energy consumption and conservation measures or equipment control devices will be correlated with the Greenhouse Gas Emissions discussion to be provided in the Air Quality section.
- Mitigation will be developed as necessary and feasible to reduce wasteful inefficient energy consumption.

Recreation

Since the proposed project is not expected to generate a substantial need for local housing, it is not expected to create a significant need for additional parks, natural areas or other recreational resources based from an increased demand. However, since the Salinas River Trail, a public trail, courses through the southwest corner of the project site, the mining plan and operations will be evaluated to determine whether they would affect the trail alignment.

The Recreation section will be prepared by Charles Cohn of Envicom Corporation.

Recreation analysis would include the following:

- Consult with the County Parks Department to determine whether the alignment would be affected by the proposed mining operations, including the access road.
- Assess view corridors from the trail that could be affected by mining operations.
- Develop mitigation to ensure that trail alignment impacts, if any, are minimized.



Transportation/Circulation

The proposed project is located immediately north of State Highway 58 (Calf Canyon Highway) and would provide a single access point located east of the Salinas River Bridge and west of Park Hill Road, between two existing residential homes. The applicant is proposing to construct a left turn lane for the eastbound traffic turning into the project entrance. Trip generation would include 198 one-way truck trips and 10 employee trips per day when operating at maximum capacity, i.e. 500,000 tons per day. It is anticipated that the majority of trips would travel

between the project site and Highway 101 (the main north-south corridor), as most of the market area would be south of Santa Margarita. A traffic impact study was prepared on behalf of the applicant by TPG Consulting, Inc. (May 2009). The study indicates that the majority of truck traffic would use Highway 58, traveling through the residential community of Santa Margarita. The study provides an analysis of several intersections along the proposed haul route, but does not analyze the El Camino Real portion of Highway 58 and Highway 101 intersection. In addition, there is a railroad crossing leading up to this intersection, which is of concern to the California Public Utilities Commission (PUC).

This section of the EIR will assess the potential for traffic congestion, level of service at specified intersections, site distance, and road wear impacts. We will peer review the applicant's traffic study, use the data and analysis in this

Some of the Transportation/ Circulation Concerns Expressed by the Community:

- Truck traffic study assumptions for the SR 101 interchange at El Camino Real
- Truck trips on Highway 58
- Traffic concerns for route from Parkhill Road through Santa Margarita to Highway 101
- · Ingress and Egress
- Truck traffic waiting in the town of Santa Margarita due to truck loading limits at the Quarry
- Roadway safety
- Stacking distance between railroad crossing at El Camino Real

report to the extent possible, and supplement this analysis as necessary to support the EIR analyses. We understand that the County has explored some alternative truck route alternatives, such as, utilizing a route through the nearby Hansen Aggregate mine and will review this alternative in order to present an assessment of its feasibility in the EIR. Hatch Mott MacDonald (HMM) will provide a traffic study upon which the EIR analysis will be based.

The Transportation Circulation section of the EIR will be prepared by Brian McCarthy and Lisa Ballin, both of Envicom Corporation. Mr. McCarthy and Mrs. Ballin will work closely with HMM and rely on HMM's technical report to prepare the analysis. HMM will review the EIR section to ensure technical consistency.



The HMM traffic study will include the following:

Task 1: Site Visit

Hatch Mott MacDonald staff will perform a site visit to the project access and all study intersections for the project. This site visit will include investigation of traffic and parking regulations, intersection lane configurations, roadway geometry (lane widths, shoulder widths, roadway curvature, etc.), observed traffic operational conditions on the area roadway network (including roadway segments and intersections), conditions of rail crossings, pedestrian and bicycle activity, visibility conditions, field measurements, etc.).

Task 2: Initial Peer Review

A peer review of the 2009 traffic impact analysis for the project and all relevant supplementary letter reports will be conducted. This review will focus on level of service calculation methodologies and assumptions. However, all elements of the study will be reviewed including:

- 1. Study scope,
- 2. Existing traffic volume data,
- Trip generation, distribution and assignment assumptions,
- 4. Level of service calculation methodologies and assumptions,
- 5. Existing, Project and Cumulative impacts, and
- 6. Recommended mitigation measures.

Additional issues that arise from the site visit (Task 1) will also be addressed in the peer review, insofar as they are addressed (or not addressed) in the traffic impact analysis.

A memorandum will be created, summarizing all of the comments and issues identified through the peer review. This memorandum will be submitted to Envicom Corporation for initial review and then to San Luis Obispo County.

Task 3: Peer Review Conference Call

HMM staff will attend, via conference call, a meeting to review the peer review memorandum (from Task 2) with Envicom Corporation and County staff. The intent of this meeting is to answer questions, clarify points, and identify which aspects of the traffic study and supplemental letters, if any, would need to be revised prior to completion of the Draft Environmental Impact Report (DEIR) for the project.

Task 4: Revisions to Traffic Report

We anticipate that San Luis Obispo County will request that HMM make the necessary revisions to the applicant's traffic report. These revisions are anticipated



to include changes to the analysis, text edits, and exhibit revisions, amongst other items. Analysis of additional study intersections or roadway segments may also be incorporated into the revised report. A total budget of \$4,163 has been allocated for this task; if additional budget would be required to complete the revisions, we will provide a revised cost estimate.

Note 1: This task assumes that HMM will be provided with various electronic files from the applicant's traffic consultant, including level of service calculation files. A list of specific files will be provided in conjunction with the conference call within Task 4, above. Not having access to these files would require additional budget to perform the work of this task, as many of the files would then have to be re-created from scratch in order to be incorporated into the revised analysis.

Note 2: If additional study intersections or roadway segments are added to this scope of work, existing traffic volumes will be required. This task assumes that such volumes are currently available, either from San Luis Obispo County staff or from the project applicant's traffic consultant. If such data is not available, HMM can collect this data through the authorization of Optional Task identified below. A budget for this data collection effort would be provided in this situation. See Optional Tasks, below, for more information regarding this additional data collection effort.

Task 5: Rail Crossing Analysis

We are aware that the California Public Utilities Commission (PUC) has submitted a letter to the County regarding the railroad crossing near the Estrada Avenue/El Camino Real intersection. This letter asks for a review of project impacts to the crossing. The current traffic report does not address this issue. HMM will perform an evaluation of the new railroad crossing signal warrant contained within the new 2009 Manual on Uniform Traffic Control Devices, in order to determine if the project would trigger signalization of this intersection. Interactions between vehicle queues at the Estrada/El Camino Real intersection and the adjacent railroad crossing will be discussed, including any observations from the site visit under Task 1. We will also evaluate the physical condition of the crossing, including the pavement condition and presence of standard crossing gates and advanced signing and pavement striping.

Task 6: Review of Roadway Suitability for Project Traffic

Trucks from the project would be traveling along the state highway system, including State Route 58. This task would involve a cursory review of the suitability of this roadway to accommodate truck traffic from the project, including roadway geometry, safety, and maintenance issues. Likely topics for this review would include presence (or non-presence) of paved shoulders and sharp horizontal and vertical curves, pedestrian and bicycle activity at the crosswalk near Santa Margarita Elementary School and Santa Margarita Community Park, and methods for the study project to aid Caltrans in maintaining good pavement conditions along the project route to US 101.



Note: The primary basis for the conclusions within this task will be the data and observations collected during the site visit under Task 1, above. More detailed analysis of the pavement maintenance issues can be performed with the authorization of the Optional Task described below.

Task 7: Alternative Truck Routes

The applicant's proposed truck route would utilize solely State Route 58 between the project site and US 101. This route would take the project through Santa Margarita and past an elementary school. HHM would investigate potential alternative truck routes that could be utilized by project traffic, including routes that would connect into neighboring Atascadero or avoid Santa Margarita altogether. A total of three alternative routes would be qualitatively reviewed for potential use by project truck traffic, focusing on the potential benefits and drawbacks of each alternative. The most feasible alternative would then be quantitatively analyzed and compared with the applicant's proposed route, to determine the best route for the project trucks.

The quantitative analysis of the most feasible alternative project truck route would involve level of service analysis under the same analysis scenarios as identified within the applicant's traffic report, namely Existing, Existing Plus Project, 2030 No Project, and 2030 With Project conditions. Channelization and traffic control warrants will be evaluated. Project impacts and associated mitigations will be identified.

Note: If additional study intersections or roadway segments are added to this scope of work, existing traffic volumes will be required. This task assumes that such volumes are currently available, either from San Luis Obispo County staff or from the project applicant's traffic consultant. If such data is not available, HMM can collect this data through the authorization of the Optional Task described below. A budget for this data collection effort would be provided to you in this situation. See Optional Tasks, below, for more information regarding this additional data collection effort.

Task 8: Documentation

HMM will update the applicant's traffic report text, exhibits, and appendix to reflect the revised analysis, including appropriate graphics. The revised traffic report will initially be prepared as an administrative draft report for review by Envicom and San Luis Obispo County staff. The report will be revised as per these comments and a final report will be provided for inclusion in the EIR.

Task 9: Assistance with Environmental Report

HMM staff will assist with the incorporation of the traffic study and supplemental letters into the EIR. This will include both 1) interpretations of the report contents; and 2) review and feedback regarding the draft circulation section of the traffic report, including mitigation descriptions.

Optional Transportation Tasks

Pavement Evaluation: Complementary analysis to Task 7, a more comprehensive pavement analysis would be performed. Vehicle classification counts would be performed over a seven-day period at four different locations on State Route 58 along the proposed project truck route. From this data, and utilizing the project trip generation and future traffic forecasts from the traffic report, a Traffic Index value would be derived. The Traffic index value would determine the level of pavement and structural improvements that would be needed along State Route 58 to accommodate the project truck traffic over the next 20 years. This task will only be performed with prior authorization from the County. Note: An additional recommended pavement analysis would involve an evaluation of the current pavement condition. This would require the hiring of a geotechnical engineer specializing in pavement impacts. If the County is interested in pursuing this analysis, we can provide the names of various firms that can perform this work. The geotechnical engineer's report, in combination with the Traffic Index value, would allow the County and Caltrans to develop a detailed pavement maintenance plan for the State Route 58 corridor that would offset any pavement impacts associated with the project.

Additional Data Collection and/or Field Work: Any necessary additional data collection could be performed for this project. Specifically, this includes additional traffic volume data collection or site visits associated with either the traffic report revisions in Task 4 or the quantitative alternative truck route analysis within Task 7. HMM has traffic count and data collection staff that can perform this work quickly and efficiently upon authorization. As the exact number or type of data collection (intersection traffic counts, segment traffic counts, field measurements, field observations, etc.) is not known as this time, a budget for this work is not provided within this proposal. However, a budget can be provided once the exact level of additional data collection and/or field work is known. This task will only be performed with prior authorization from the County.

Conceptual Design Plans for Recommended Improvements: HMM would develop conceptual designs and cost estimates for the various improvements recommended within the revised traffic report. HMM staff has extensive experience in the design of intersection improvements, signals (including railroad preemption), and traffic calming. Budgets for this work can be provided upon request, and would be customized for each improvement and the level of design requested (conceptual plans, Plans Specifications and Estimates (PS&E), etc.). This task would only be performed with prior authorization from the County.



Land Use

The proposed project site is within the Rural Lands (RL) land use category, and in the Extractive Resource Area 1 (EX1), as defined by Land Use Ordinance Section 22.14.050. The proposed project includes the recycling of asphalt and concrete, which could be imported to the site, processed, and resold. Recycling is not specifically permitted within the RL zone unless it is an ancillary use to a waste disposal facility (Section 22.06.030). However, the applicant is requesting an exception to the special use standards under Section 22.30.020(D) to allow concrete and asphalt recycling as part of its mining operation. Envicom will provide an analysis of the request to permit recycling as part of the Conditional Use Permit. A consistency analysis with the findings required in Section 22.30.020(D) will be prepared.

The land use section will refer the reader to the applicable sections of the EIR for analysis and discussion of issues related to land use compatibility, e.g., aesthetics, traffic, air quality, and noise.

The Land Use consistency analysis will be prepared by Brian McCarthy of Envicom Corporation.

VI. COST ESTIMATE

The cost for the scope of work identified in this proposal is provided in Table 1 and has been prepared in accordance with Envicom Corporation's 2010 professional fee schedule (attached following Table 1). The total base cost for the EIR is \$308,797.70. This cost is based upon the following set of assumptions:

- The project description does not substantially change subsequent to initiating the Administrative Draft EIR.
- Reproduction costs are limited to the number of copies specified in the RFP.
- A total of 100 hours for Response to Comments have been included in our estimate. Upon completion of the public review period, we will review the comments received in cooperation with the County and determine whether this level of effort, along with the level of effort budgeted for other FEIR tasks, is sufficient.
- Costs may be shifted among line items as necessary.
- Additional work beyond tasks included herein would be subject to mutual agreement of scope and costs.
- Travel time to meetings will only be billed for one direction of travel.
- This cost proposal is valid for 60 days.



TABLE 1 Oster (Las Pilitas Quarry) CUP and Reclamation Plan EIR Cost Estimate

	DESCRIPTION	STAFF	HOURS	RATE	cost
abor Costs Task 1	Preparation of Administrative Preff EIP				
iaSK 1	Preparation of Administrative Draft EIR 1.1 Project Description / EIR Outline	Greg Zitney Lisa Ballin	8 16	190.00 160.00	1,520.00 2,560.00
		Brian McCarthy	32	105.00	3,360.00
	1.2 Environmental Setting (including Related Projects)	Brian McCarthy Charles Cohn	10 8	105.00 75.00	1,050.00 600.00
	1.3 EIR Impact Analyses Aesthetics	Jack Blok,Ph.D	54	105.00	5,670.00
	Agricultural Resources	Erin Evarts Jack Blok,Ph.D	8 36	90.00 105.00	720.00 3.780.00
	Air Quality/Global Climate Change	Brian McCarthy Brian McCarthy	4 40	105.00 105.00	420.00 4,200.00
	Biological Resources Plant and Wildlife Survevs and Mapping	Carl Wishner	24	130.00	3,120.00
	EIR Analysis	Jim Anderson Carl Wishner	32 12	90.00 130.00	2,880.00 1,560.00
	Cultural Resources	Jim Anderson Erin Evarts Brian McCarthy	48 20 30	90.00 90.00 105.00	4,320.00 1,800.00
	Geology and Soils Hydrology, Water Quality, and Water Supply	Greg Zitney Jim Anderson	8 32	190.00 90.00	3,150.00 1,520.00 2,880.00
	Hazards	Jack Blok,Ph.D Brian McCarthy	28 24	105.00 105.00	2,940.00 2,520.00
	Noise Energy	Brian McCarthy Charles Cohn	36 32	105.00 75.00	3,780.00 2,400.00
	Recreation Transportation/Traffic	Charles Cohn Lisa Ballin Brian McCarthy	20 16 40	75.00 160.00	1,500.00 2,560.00
	Land Use	Lisa Ballin Brian McCarthy	6 40	105.00 160.00 105.00	4,200.00 960.00 4,200.00
	1.4 – Evaluation of Alternatives	Greg Zitney	12	190.00	2,280.00
		Lisa Ballin Brian McCarthy Erin Evarts	24 46	160.00 105.00	3,840.00 4,830.00
		Jack Blok,Ph.D Jim Anderson	8 8 8	90.00 105.00 90.00	720.00 840.00 720.00
	1.5 – Other Required EIR Sections Introduction/Executive Summary	Charles Cohn	14	75.00	1,050.00
	Growth Inducing Impacts Irreversible/Irretrievable Commitments of Resources	Charles Cohn Charles Cohn	6	75.00 75.00	450.00 300.00
	Other Sections (TOC, References, Contacts, Preparers, Technical Appendices)	Renee Mauro	8	65.00	520.00
	1.6 - Mitigation Monitoring Plan	Greg Zitney	6	190.00	1,140.00
		Brian McCarthy	32	105.00	3,360.00
	1.7 – Internal Review/Quality Control	Greg Zitney Lisa Ballin	20 50	190.00 160.00	3,800.00 8,000.00
	1.8 –Document Preparation/Production of Admin DEIR	Joe Johns	4	250.00	1,000.00
		Lisa Ballin Brian McCarthy Renee Mauro (WR/Production)	8 16	160.00 105.00	1,280.00 1,680.00
		Renee Mauro (WP/Production) Erin Evarts (GIS) Chris Boyte (Graphics)	32 28 30	65.00 90.00 90.00	2,080.00 2,520.00 2,700.00
Task 2	Preparation of Draft EIR (includes Screencheck)	Offits Boyte (Oraphics)	30	90.00	2,700.00
		Greg Zitney Lisa Ballin	8 24	190.00 160.00	1,520.00 3,840.00
		Brian McCarthy Renee Mauro (WP/Production)	56 18	105.00 65.00	5,880.00 1,170.00
		Boyte/ Evarts (Graphics/GIS)	16	90.00	1,440.00
Task 3	Preparation of Administrative Final EIR Response to Comments	Envicom Corporation Staff	150	110.00	16,500.00
	EIR Revisions	Greg Zitney Greg Zitney	24 8	190.00 190.00	4,560.00 1,520.00
		Lisa Ballin Brian McCarthy	18 32	160.00 105.00	2,880.00 3,360.00
	Document Preparation	Renee Mauro (WP/Production)	16	65.00	1,040.00
		Boyte/Evarts (Graphics/GIS)	16	90.00	1.440.00
Task 4	Preparation of Final EIR (includes Screencheck)	Greg Zitney Lisa Ballin	8 20	190.00 160.00	1,520.00 3,200.00
		Brian McCarthy Renee Mauro (WP/Production)	44 16	105.00 105.00 65.00	4,620.00 1.040.00
		Boyte/Evarts (Graphics/GIS)	16	90.00	1,440.00
Task 5	Management/Coordination (Assumes up to 12 Month Project Duration)	Lisa Ballin	28	160.00	4,480.00
	Management of Subsequellants / Canalatanay	Brian McCarthy Joe Johns Brian McCarthy	50 8 28	105.00 250.00 105.00	5,250.00 2,000.00 2,940.00
	Management of Subconsultants / Consistency Clerical/Administration (Mailing, Filing, Reproduction)	Renee Mauro Roberta Ryniewicz	28 12	65.00 70.00	1,820.00 840.00
Task 6	Attend Meetings and Public Hearings Kick-off Meeting/Site Visit (includes travel time)	Greg Zitney	8	190.00	1,520.00
		Lisa Ballin Brian McCarthy	7 7	160.00 105.00	1,120.00 735.00
	Five (5) staff meetings	Greg Zitney (3 meetings) Lisa Ballin (3 meetings)	21 18	190.00 160.00	3,990.00 2,880.00
	Four (4) Public Hearings	Brian McCarthy (5 meetings) Greg Zitney (3 meetings) Lisa Ballin (3 meetings)	30 27 24	105.00 190.00 160.00	3,150.00 5,130.00 3,840.00
	Preparation of one hearing presentation	Brian McCarthy (3 meetings) Greg Zitney	24 24 8	105.00 190.00	2,520.00 1,520.00
		Lisa Ballin Brian McCarthy	4 24	160.00 105.00	640.00 2,520.00
			EIR Labor Co	osts Subtotal	\$217,145.00
irect Costs	Printing/Reproduction	4 conice/40 pages (pa color)			40.05
	Draft Project Description and EIR Outline Administrative Draft EIR Administrative Draft EIR Tech Append	4 copies/40 pages (no color) 4 copies/200 pages (17 color) 4 copies/300 pages (no color)			18.25 283.20 180.00
	Draft EIR Draft EIR Tech Append	20 copies/200 pages (17 color) 15 copies/300 pages (no color)			1,416.00 675.00
	Administrative Final EIR Administrative Final EIR Tech Append	4 copies/300 pages (17 color) 4 copies/300 pages (no color)			343.20 180.00
	Final EIR Final EIR Tech Append	30 copies/300 pages (17 color) 20 copies/300 pages (no color)			2,574.00 900.00
	Binding				120.00
	Materials/General Reproductions Overnight Mail Travel Expenses/Misc. Materials				1,600.00 380.00 3.375.00
	Communications (Fax. Phone. etc.)	_	EIR Direct Co	osts Subtotal	1.856.05 \$13,900.70
eer Review/To	chnical Studies			AL EIR COST	\$231,045.70
SSI IVENIEW/ IE	Visual Simulations (model and four stills with renderings)		Interacta Ind		13,600.00
	Air Quality/GHG Cultural Resources		BCR Consu Wilson Geo:	lting	7,500.00 1,900.00 9,575.00
	Geology and Soils			drologics	19,527.00
	Geology and Soils Hydrology, Water Quality, and Water Supply				3,250.00
	0,	_	Giroux and A Hatch Mott I	MacDonald	
	Hydrology, Water Quality, and Water Supply Noise	- Total eir inclui	Giroux and A Hatch Mott I Technical Stud	MacDonald lies Subtotal	\$77,752.00 308,797.70
	Hydrology, Water Quality, and Water Supply Noise Transportation/Traffic		Giroux and A Hatch Mott I Technical Stud	MacDonald lies Subtotal	\$77,752.00 308,797.70
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Environmental Analysis & Compliance

Urban Planning & Design

Real Estate Development & Entitlement

Environmental Restoration

Real Estate Economics & Valuation

28328 Agoura Road Agoura Hills, California 91301

> Tel. (818) 879-4700 Fax (818) 879-4711

PROFESSIONAL FEE SCHEDULE January 1, 2011

Envicom Professional Fee Schedule applies to the following services:

•	Environmental Studies (CEQA/NEPA)	•	ACOE/CDFG Jurisdictional Studies
•	Environmental Constraints Analyses	•	Trustee Agency Permit Procurement
•	Site Planning/Design	•	Habitat Restoration Plans
•	Development Entitlements	•	Litigation Support
•	Biological Resource Studies	•	Environmental Compliance

PERSONNEL

Principal I	\$275.00
Principal II	\$180.00
Director	\$160.00
Associate	\$140.00
Senior Analyst	\$90.00-\$120.00
Environmental Analyst/Staff Scientist	\$75.00-\$105.00
GIS /Mapping	\$90.00
Project Assistant/Production Specialist	\$60.00-\$75.00
Intern	\$50.00

Expert Witness testimony: One and one half times above listed rates (including depositions).

PROJECT-RELATED EXPENSES:

Printing/Reproduction rates for black and white copies will be charged at \$0.15 per page and in-house color copies at \$2.40 per 8-1/2x11and \$2.85 per 11x17 copy. Oversized copies and plots will be as quoted. **Other direct expenses** (including travel costs) are charged at cost. Per Diem charge for subsistence may be negotiated in lieu of actual direct expenses for hotels/meals. **Personal vehicle** use will be at current IRS rate (currently \$0.55 per mile).

EQUIPMENT RATES

Envicom Corporation charges for consumable field materials and specialized equipment.

General Field Consumables (Stakes, Flagging, Plant and Tree Tags	\$20.00/day
Field Animal Traps	\$35.00/day
Trimble GeoXT GPS	\$65.00/day
4 x 4 Trucks	\$25.00/hour

PAYMENT

Envicom Corporation invoices are submitted monthly and payment is due on or before the twenty-fifth (25th) day following the date of the invoice. Delays in timely payment of invoices are subject to interest at one and one-half percent (1 ½%) per month and may result in delay of work products.

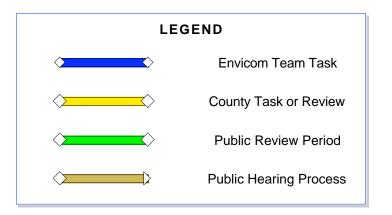
www.envicomcorporation.com

VII. SCHEDULE

Our proposed schedule is shown in **Figure 3.** The schedule indicates delivery of the ADEIR within 16 weeks of the kickoff meeting. This schedule assumes that all project description materials are available at the outset and that the project description does not change once the impact analyses are underway. The overall time frame for the EIR process would be within approximately 12 months. It is noted however, that this schedule is based on assumptions that have been made with respect to County review periods that are beyond our direct control.

Oster (Las Pilitas Quarry) CUP and Reclamation Plan EIR Schedule

	Activity Nama	Start Finish		Duration	2011						2012							
	Activity Name	Date D	Date	(Work Weeks)	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	
1	Kick-Off Meeting	7/5/11			<u> </u>													
2	Project Description/EIR Outline	7/5/11	7/19/11	2.20														
3	Administrative Draft EIR	7/19/11	11/7/11	16.00														
4	County Review	11/8/11	12/5/11	4.00					\Diamond	\Diamond								
5	Draft EIR (includes a Screencheck Draft)	12/6/11	1/2/12	4.00														
6	DEIR Public Review Period	1/3/12	2/16/12	6.60						<		Ŷ						
7	Administrative Final EIR	2/17/12	3/15/12	4.00									\Rightarrow					
8	County Review	3/16/12	3/29/12	2.00										}				
9	Final EIR (includes a Screencheck Draft)	3/30/12	4/26/12	4.00									2					
10	Findings and Statement of Overriding Considerations	4/27/12	5/10/12	2.00														
11	Public Hearing Process	5/11/12	7/5/12	8.00											\rightarrow		\triangleright	
12			2/23/10															
				Tot: 52.80	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	



Appendix A

Resumes and Subconsultant Qualifications



Joseph G. Johns President

Mr. Johns serves as President and Chief Executive Officer of Envicom Corporation, a professional services consulting firm specializing in CEQA/NEPA Reporting, Land Use Suitability Analyses, Development Entitilements, Biological Studies, and Ecological Restoration Plans. Prior to founding Envicom Corporation, Mr. Johns' served in principal level positions with two prominent, California-based earth sciences consulting firms.

Mr. Johns' professional experience includes researcher/author of federal and State NEPA and CEQA documents, community general plans, specific plans, redevelopment/revitalization plans, feasibility and development siting studies, resource-based environmental constraint studies, and land use entitlements.

Previous professional work has included mining engineering and assessment of ore reserves, railway engineer and surveyor, pipeline transportation corridor surveying; engineering design for transportation networks and support facilities, and engineering inspection related to construction of transportation, communication and industrial railway facilities.

Mr. Johns holds a Bachelor of Science degree in Geology from Arizona State University and certification in Environmental Planning from the University of Southern California. Mr. Johns has been an adjunct professor at Pepperdine University's School of Public Policy since 2005, instructing in the Masters of Public Policy program. Mr. Johns also served as Environmental Analysis Curriculum Chairman for the University of California, Los Angeles, School of Arts Extension program in 1979-80 and also taught an accredited course under the University's Extension program.

Mr. Johns has qualified as an expert in Los Angeles, Orange, Ventura, San Diego, San Bernardino, San Luis Obispo, and Santa Barbara Counties, as well as in the U.S. Court of Federal Claims and courts in several states outside California. He has qualified as an expert witness in land planning, community planning, environmental planning, real estate and entitlement advisor to land/developers, CEQA/NEPA reporting, Highest and Best (HBU) determination and "damages assessments" in eminent domain litigation. Cases in which Mr. Johns has participated as a designated expert witness include:

LAUSD v. Meruelo Maddox Properties, et al. 2008

Case involved a taking by LAUSD of real property located in the historic Taylor Yard district of the City of Los Angeles for purposes of the construction of a new high school. Valuation issues were complicated by a multitude of adverse environmental conditions stemming from historic uses of the "take" parcel as well as adverse impacts from surrounding land uses, metro-rail and freeways.

Southern Pacific Transportation Company v. Santa Fe Pipelines, Inc., 2003 Case involved the determination of a "fair market" rent for 1,871 miles of Santa Fe, Pacific Pipeline, Inc. and Santa Fe RR pipeline easements within Union Pacific's Railway Rights of Way



People v. San Antonio Lakes Partners, et Al., 2002.

Case involved a partial taking by Caltrans of temporary and permanent easements for rights of way for the construction of Highway 30 within the County of San Bernardino.

Concerned Citizens of Bell Air v. Board of Public Works, City of Los Angeles, (Broidy), 2001

Challenge to CEQA process related to entitlements for construction of single family home located in Bel Air. Issues concerned impact to waters of the U.S., loss of oak woodland, wildlife habitat and aesthetics.

County of Los Angeles v. Mission Peak et al., 2001

Taking of private property for purposes of mitigation in support of County approvals to expand the Sunshine Canyon landfill.

City of Burbank and Burbank Redevelopment Agency v. Burbank-Glendale-Pasadena Airport Authority, 1999

Key issues concerned applicability of the City's Zoning Ordinance to size, location and access of new terminal project proposed by Airport authority.

San Luis Obispo County Chumash Council v. Rob Rossi (Santa Margarita Ranch), 1999

Challenge to expansion of agricultural and farming operations as regards potential adverse impacts to historical and cultural resources.

County of San Bernardino v. Richland Pinehurst, L.P. et al., 1999

Taking of permanent and temporary easements by Caltrans (Sanbag) for widening and construction of State Route 71 through the County of San Bernardino and the City of Chino Hills.

State of California v. Oster, el al, 1998

Taking of permanent and temporary linear easement for pipeline right-of-way for construction and operation of State Water Project Coastal Branch 54" water pipeline.

State of California v. Blue Sky Ranch, 1998

Taking of permanent pipeline right-of-way easement for construction and operation of State Water Project Coastal Branch 54" water pipeline.

Forest Properties, Inc. v. Army Corps of Engineers (ACOE), 1996

Inverse condemnation involving denial of 404 permit by Army Corps to fill 9 acres of Big Bear Lake (California) for residential purposes. The "water dependency" test was a key issue along with adverse impacts to golden eagle nesting sites.

Southern Pacific Transportation Company v. Santa Fe Pacific Pipeline Corporation, 1996

Characterization of 1, 800 miles of pipeline corridor located within railroad rights-of-way for purposes of establishing a current valuation of the transportation corridor. At issue was the use of substitution or replication



methods for valuation applied to a similarly located transportation corridors from Texas to Oregon.

Village Properties v. Santa Monica Mountains Conservancy, et al., 1995 Adequacy "review" of completed Village Properties Project EIR and determination of impacts from previously unknown rare plant on the proposed development site plan.

State of California v. Santa Margarita Limited, 1995

Taking of permanent and temporary linear easements for pipeline right-of-way and maintenance roadways for construction and operation of the State Water Project Coastal Branch 54" water pipeline.

Allan R. Hoffman et al. v. City of Creve Couer, 1995

Appropriateness of City's zoning code for single-family development on 40-acre parcel constrained by adjacent office/commercial uses and environmental factors including possible adverse health effects associated with overhead power line.

Lynwood Unified School District v. Southern California Association of Seventh-Day Adventists, et al., 1992

Partial taking of a 30-acre Seventh-Day Adventist school and church/parking complex by the Lynwood Unified School District for the purposes of demolishing property improvements and constructing a 4,000-student public high school facility.

Gurrola v. Calleguas Municipal Water District, 1991

Partial taking by Calleguas MWD of Gurrola Family property in Ventura County for purposes of expansion and construction of upgraded water treatment facility.

State of California v. Chevron Oil Company, 1988

Taking by Chevron Oil Company of 100' wide pipeline corridor through Gaviota State Park for underground transmission of highly toxic H2S (sour) gas from offshore platforms to nearby onshore refinery facility.

State of California v. Vista Del Mar School District, 1988

Taking (partial) of 21 acres of Gaviota State Park in Santa Barbara County for purposes of constructing a K–8 school and community center facility.

City of Ojai v. Ojai Investments, 1987

Litigation under Government Code and CEQA with respect to "deemed approved" statutes on a 31-acre commercial and residential property located in the City of Ojai.

San Diego Gas & Electric Company v. Old Stage Ranch, et al., 1986
Taking of 200' wide corridor for 500 kV overhead transmission line across Old Stage Ranch located in northern San Diego County.

San Diego Gas & Electric Company v. Donald L. Daley, et al., 1985
Taking of a 200' wide corridor extending 2.3 miles in length (55.7 acres), across 9,500 acre Daley Ranch located in Jamul (San Diego County) by San Diego Gas



& Electric, for the purpose of constructing and operating 500 kV overhead transmission line.

San Diego Gas & Electric Company v. Otay Mesa (Kuebler Ranch), 1985 Taking of 48 acres of the 3,250-acre Kuebler Ranch located in San Diego County for purposes of constructing and operating a 230 kV overhead transmission line.

Los Angeles County Sanitation District v. Lester (Bob) T. Hope, 1985
Taking of 89 acres of a 300-acre holding in Calabasas area for purposes of constructing a haul road to serve the Lost Hills Calabasas Landfill.

San Diego Gas & Electric Company v. Union Oil Company, 1984
Taking of 177 acres in fee and 20 acres as a temporary easement for 500 kV and 230 kV overhead transmission lines through the 2,800-acre Bonita Miguel Ranch in San Diego County.

Las Virgenes Water District v. Lester (Bob) T. Hope, 1983

Taking by Las Virgenes Water District of 260 acres of a 985-acre holding along Malibu Road in Calabasas (L.A. County) for purposes of sewage (sludge) spreading grounds from the Tapia Reclamation Plant and future construction of holding tanks and related pipeline system.

Otay Municipal Water District v. Union Oil Company, 1981
Taking by Otay Municipal Water District of 435 acres of the 3,200-acre Bonita
Miguel Ranch located in San Diego County for the purpose of constructing
effluent retention basins.

Invited presentations/publications in which Mr. Johns has participated include:

- "Demonstrative Evidence Graphics, What Works, What Doesn't," address before the Appraisal Institute, Annual Litigation Seminar, 1997.
- "Using Environmental Factors in Appraisals and Expert Testimony," address before International Right-of-Way Association, Orange County Chapter No. 67, 1997.
- "The Hazards of Planning around Electric and Magnetic Fields," The Dispatch of the Los Angeles Section of APA 21, no. 3, April 1991.
- Co-author Real Estate Law Journal, "Electromagnetic Radiation: A Case for Relevance in Real Estate Transactions and Eminent Domain," Fall 1991.
- Guest lecture, "The Environmental consultant, "University of California, Santa Barbara, Environmental Impact Analysis (ES(ES 165A, 1986.
- Speaker/elevator at the "Environmental Planning forum," University of California, Northridge Master Degree Program in Environmental Studies, the Consortium of the California State University, Academic Program Office, 1986.



- "Consultant Selection and Client Liaison," address before the Association of Environmental Professionals, Annual Meeting at Asilomar, California, 1980.
- "Environmental Profession Business Practices," address before the Association of Environmental Professionals, Annual Meeting at Cal Poly Pomona, California, 1979.
- "Making the EIR Work for the Decision Maker," presentation as a University Seminar to public and private decision-makers, University of California Extension at Irvine, Santa Ana, California, 1977.
- "Preparation of an Environmental Data Base." address before the Association of Environmental Professional, Annual Meeting, Inglewood, California), 1976.
- "Data Base and Cumulative Effects Projection and Monitoring," address before the Association of Environmental Professionals, Annual Meeting, Inglewood, California), 1976.
- Guest Interview, "Southern California Earthquakes," Ralph Story's AM Television Program, ABC Broadcast Studios (Burbank, California), 1975.
- "Earthquake Hazards and Real Estate Appraisal," address before the Real Estate Appraisal Institute (Los Angeles, California), 1975.
- "Some Concerns Regarding Preparation of Environmental Impact Documents," presentation to the League of California Cities Planning Commissioner's Institute (Palm Springs, California), 1974.



Travis C. Cullen, LEED AP Chief Operating Officer

Mr. Cullen serves as the Chief Operating Officer of Envicom Corporation. During his tenure with Envicom Corporation, Mr. Cullen has provided a variety of environmental consulting services to both public and private clients including due diligence, technical studies, constraints analyses, site planning and entitlement strategy, preparation/ management of CEQA documents, mitigation plans, and litigation/expert witness testimony support. He has also processed Trustee Agency Permits including USFWS Section 7 Consultation, California Coastal Commission Coastal Development Permits, CDFG Streambed Alteration Agreements, Section 2081 Take Permits, ACOE 404 permits, RWQCB 401 Water Quality Certifications, and Water Discharge Requirement Permits, In addition to his permitting experience Mr. Cullen has provided management and oversight of biological and construction monitoring/reporting as well as compliance for conditions of approval and mitigation measures, including preparation and negotiation of mitigation plans, restoration plans, and in-lieu fee agreements. Geographically he has worked in both rural and urban locals for a range of uses including residential, commercial, industrial, medical, mixed-use, institutional, recreational, public infrastructure, and conservation/restoration. His experience with a variety of project types at various stages of the planning, entitlement, and construction processes provides a thorough understanding of the individual environmental issues, direct and indirect impacts, opportunities for mitigation by design, and feasibility/effectiveness of mitigation measures.

Recent examples of Mr. Cullen's experience in Ventura County include preparation and oversight of multiple Initial Study Biological Assessments (ISBAs) for the Ventura County Planning Department; Section 7 Consultation with USFWS and compliance monitoring/reporting for the US EPA Radiological Survey of Santa Susana Field Lab Area IV; permitting and condition/mitigation compliance for the Moreland Ditch Maintenance, Ventura Promenade Repair and Maintenance, and Sanjon Estuary Maintenance for the City of Ventura Public Works Engineer Division; management and oversight of the Wildwood Estates Residential Development EIR (Santa Rosa Valley); Trustee Agency permitting and preparation of a restoration plan for the El Rancho Alegre Restoration of the Arroyo Simi; and Trustee Agency permitting and oak tree monitoring/compliance for Sherwood Development Company Tract 4192/4409 Residential Development and Golf Course. Other examples of Mr. Cullen's experience outside of Ventura County include MSHCP compliance for the Paradise Valley Specific Plan (Riverside County); CEQA documentation, Trustee Agency Permitting, compliance monitoring and restoration of the Las Virgenes Municipal Water District Cordillera Pipeline replacement; CEQA documentation and Trustee Agency permitting for the Conrad N. Hilton Foundations Headquarters Campus (seeking LEED Platinum)(Agoura Hills); management and preparation of the 2000 Avenue of the Stars Commercial Office Building EIR (City of Los Angeles); management and preparation of the Oceana Retirement Facility/Holiday Harbor Courts EIR (Los Angeles County), preparation of the LAACO Topanga Property Site Evaluation Los Angeles County, Hearst Ranch Environmental Database Update (San Luis Obispo County), Pepperdine University GCP Environmental Impact Report (Los Angeles County), Debs Park Master Plan (City of Los Angeles), Malibu Terrace Pump Station MND (City of Calabasas).

Mr. Cullen's experience with litigation/expert witness testimony support has involved research, analysis and preparation of trial notebooks for cases including State v. County of LAUSD v. Muruelo Maddox Properties, et al. (Los Angeles), Los Angeles County v. Kernview Oil Company et al (Whittier Narrows), SANBAG v. Richland Pinehurst



(Chino Hills), Los Angeles County v. Mission Peak (Los Angeles County), State of California v. San Antonio Lakes Partners (Upland) and Garasi v. Gray (Santa Clarita).

Mr. Cullen is a graduate from the University of California at Santa Barbara with a B.A. in Environmental Studies and an emphasis in Geography. He is a LEED Accredited Professional and is currently serving on the Board of Directors for the Channel Counties Chapter of the California Association of Environmental Professionals as the Ventura County Representative.



Primo Tapia III

Vice President, Officer of the Corporation

Mr. Tapia has extensive experience in the analysis of environmental constraints, CEQA compliance, development impact assessment, resource entitlement and permitting, and construction monitoring. He has successfully coordinated the acquisition of resource permits from trustee agencies; such as Streambed Alteration agreements and Incidental Take permits from the California Department of Fish and Game and Section 404 permits from the Army Corps of Engineers.

Mr. Tapia is experienced in preparation of Environmental Impact Reports (EIR) in compliance with the California Environmental Quality Act. Current projects include the daily oversight of the Pepperdine University Campus Life Project EIR. In this capacity, he leads a team of experts evaluating the short and long-term environmental effects of the University's planned improvements to its Malibu, California campus. The project, intended to improve the quality of the collegiate experience for students, includes a 5,000-seat athletic and event center, student residential housing, communal areas, new and upgraded athletic and intramural facilities, three new parking structures, and central campus quad.

Mr. Tapia is also experienced coordinating and managing large-scale permit compliance monitoring projects such as that undertaken for the Qwest Communications Fiber Optic Cable Installation Project. Mr. Tapia managed the preparation of Operation, Emergency, and Fire Prevention Plans as well as Environmental Assessment documents for the installation of fiber optic telecommunication lines within federally held land. Mr. Tapia supervised all environmental and archaeological monitoring activities during construction and directed a team whose primary responsibility was to insure contractor compliance with numerous Angeles National Forest Special Use Permit conditions intended to minimize potential impacts to forest resources.

Mr. Tapia directed biological and construction monitoring for Griffin Industries' Heritage Park Project. The project was subject to conditions of approval from the City of Fillmore, as well as Trustee Resource Agencies including US Army Corps of Engineers, California Department of Fish and Game, and the California State Water Resource Control Board for the Heritage Valley Parks Specific Plan Project. The project included the development of 750 single-family residences, an elementary school, fire station and open space on 170.1 acres. Services directed include a wetland delineation of the Santa Clara River, rare plants surveys, nesting bird/raptor surveys, focused sensitive species surveys for least Bell's vireo and southwestern willow flycatcher, environmental training, and liaison with members of the project team as well as Agents for the Lead and Trustee Resource agencies.

His background also includes specialized view analysis and post-project imaging, and other cartographic endeavors. Mr. Tapia's work on the impact analysis for the Sunset Millennium project allowed the decision-makers to understand complex view issues and consistency issues with the Master EIR for the Specific Plan on which the project documentation tiered. Other relevant projects in which Mr. Tapia held a key role in management and/or analysis were the 2000 Avenue of the Stars office project in Century City, the Pepperdine University Campus Life Project EIR, and the Azusa General Plan Update.

Mr. Tapia managed the preparation of an Environmental Impact Report for the 2000 Avenue of the Stars Project. The project proposed to revitalize the old ABC Entertainment Center by removing two existing structures and constructing a single midrise office building and three-acre landscaped plaza.



Mr. Tapia's other relevant assignments include significant contributions to:

Private development projects

Heritage Valley Parks Project Biological Resource Permitting, City of Fillmore

Heritage Valley Parks Project Construction Mitigation Compliance, City of Fillmore

Lost Canyons Golf Course EIR, City of Ssimi Valley;

Deerlake Ranch Habitat Restoration Implementation and Monitoring, City of Los Angeles

Butcher Mountain EIR, City of Torrance;

Dairy Creek Golf Course EIR; City of San Luis Obispo

Valley Gateway Development Application, City of Santa Clarita

Institutional expansion projects

Amendments to the Pepperdine University Long Range Development Plan

Pepperdine University Graduate Campus Development EIR

Soka University Malibu Campus Expansion EIR

Claremont Colleges Keck Institute EIR

Utility and transportation eminent domain valuation

Southern Pacific Transportation Company v. Santa Fe Rail Road

Southern California Gas Company v. Santa Fe Railroad

Southern Pacific Transportation Company v. Shell Oil Company

State of California v. Woodson

State of California v. Anaheim Foursquare Church

Metropolitan Transit Authority v. Thai et al

Mr. Tapia has prepared refined materials for public hearing presentations with Federal, State, Regional, and Local agencies having jurisdiction over projects (including but not limited to the California Coastal Commission, California Public Utilities Commission, and Regional Water Quality Control Board).

Mr. Tapia received a Bachelor of Arts Degree in Geography and is a member of the Association of Environmental Professionals.



Lisa S. Ballin

Director of Environmental Services

Ms. Ballin has twenty-one years of experience in managing and preparing environmental documentation for projects spanning a wide range of land uses, sizes, complexities, and environmental issues. She has particular expertise in California Environmental Quality Act (CEQA) compliance, impact analysis procedures, and policy consistency analyses. She has applied her analytical, CEQA compliance, and managerial skills to proposed residential developments, redevelopment plans, educational facilities, public works projects, and mixed-use developments in urban, suburban, and undeveloped locations in the Los Angeles area as well as in Central California. Ms. Ballin brings a strong foundation in logic and analytical thought, along with an ability to grasp technical issues and the complexities typical of larger-scale projects, and to convey these issues in a written format that is comprehensible to the general public, relevant to agency decisionmakers, internally consistent, and legally sufficient. As Director of Environmental Services, Ms. Ballin leads and supervises the firm's staff in the preparation of CEQA/NEPA documentation, providing strategy, oversight, and quality control. She also manages a number of the firm's EIR projects. In this capacity, she coordinates project team members including in-house staff, subconsultants, regulatory agencies and clients; prepares and monitors budgets; and reviews and edits documents for internal consistency and legal adequacy. She employees a hands-on approach and writes many EIR sections including both technical sections as well as project descriptions, impact summaries, alternatives analyses, and policy consistency analyses.

Ms. Ballin's current and recent experience includes overseeing and/or managing the preparation of EIRs for the Pacoima/Panorama City Redevelopment Plan Amendment/Expansion Project (covering potential redevelopment within an 8,500-acre area of the City of Los Angeles), the Westar Mixed-Use Village project (a proposal to develop 274 multi-family residential apartment units and 90,054 square feet of commercial space in the City of Goleta), the Willow Springs II project (a 100-unit residential development within the City of Goleta), The Orcutt Union School District Key Site 17 project (a proposal to amend the Orcutt Community Plan to allow for development of a senior housing project), the Santa Barbara Botanic Garden Vital Mission Plan (a plan to implement a series of changes and additions to the Garden's existing facilities), and Grimes Canyon mining projects (three EIRs for three mining operations in Ventura County). Ms. Ballin has successfully managed projects located in highly sensitive areas and subject to extensive public scrutiny. She has prepared program EIRs that have proved to be a successful for streamlining environmental review of subsequently proposed specific developments.

Prior to joining Envicom Corporation (1997), Ms. Ballin managed projects for two other consulting firms, one in Los Angeles and one in New York. At the Los Angeles firm, she managed and co-managed environmental documentation of major public infrastructure planning for sewer lines and transportation systems (e.g., subways, light rail lines, an electric trolley bus system, and freeway widening projects). Her project experience at the New York firm ranged from Manhattan high-rise, urban infill development to renovation of a historic, waterfront amusement park. Ms. Ballin also managed the environmental documentation of New York City's Sludge Management Program, a complex system of sludge transportation and processing/disposal, employing a range of technologies at numerous sites throughout the City.

Ms. Ballin received her Bachelor of Arts degree in Mathematics from the University of Pennsylvania in 1986 and a Masters of Science degree in Engineering-Economic Systems from Stanford University in 1988.



Carl Wishner Principal Biologist

Mr. Wishner has over 30 years of professional experience in the study and analysis of biological and natural sciences. His technical proficiency is broad-based, including expertise in floristic and faunal surveys, focused surveys of sensitive, rare and endangered species, habitat inventory and evaluation, biological impact assessment, wetland determination, natural resource policy analysis, habitat restoration, and biological monitoring. Mr. Wishner pursued his education in the biological sciences receiving a BS (Cum Laude) in Botany and MS in Biology from Humboldt State University. He held the position of Lecturer in Botany at the University, conducted research for the Pacific Southwest Forest and Range Experiment Station (Corvalis) and worked for several years as a forestry technician for the Sequoia and Inyo National Forests in California.

As Principal Biologist within the Biological Resources Division of Envicom Corporation, Mr. Wishner functions as the lead investigator for all biological field surveys and technical evaluation of constraints and impacts to biological resources. In this regard, Mr. Wishner is responsible for direct preparation of technical biological reporting on Envicom's CEQA documents.

Mr. Wishner's experience with endangered plant species concerns is considerable, having performed numerous surveys, impact analyses, prepared salvage and restoration plans, and incidental take permits for Lyon's pentachaeta at Lake Sherwood, Conejo buckwheat and Verity's dudleya at Conejo Mountain, and Blochman's dudleya at El Chorro Regional Park. He also managed the inventory and analyses of biological and botanical constraints for large areas including Santa Margarita and Hearst Ranches in San Luis Obispo County, and for Ahmanson and Jordan Ranches in Ventura County. Mr. Wishner recently completed comprehensive surveys over 4,000 acres at Adams Canyon in Ventura County, a botanical resource inventory of Malibu Lagoon State Beach in Los Angeles County, and prepared a Biological Resources Management Plan for the 6,000-acre Upper Las Virgenes Canyon Open Space Preserve (formerly Ahmanson Ranch) for the Santa Monica Mountains Conservancy. Mr. Wishner's botanical skills were instrumental in the establishment of the former Soka University Botanical Research Center and Nursery, now part of King Gillette Ranch State Park, which specializes in the conservation and study of native plants of the south coastal region of California. Through his extensive familiarity with the native flora, he has established an impressive collection of seeds of native plants for the University. Mr. Wishner served for five years as Editor of Crossosoma, the journal of Southern California Botanists, Inc, and contributed numerous articles to the journal.

Mr. Wishner has contributed to the development of habitat restoration plans for wetland areas in the Cuyama and Santa Clara Rivers of Ventura County, El Chorro Regional Park in San Luis Obispo County, and for a soil-contaminated upland restoration site at North American Rockwell's Santa Susana Field Laboratory (Rocketdyne) in the Simi Hills of Ventura County. He is also knowledgeable in zoology, wildlife management, mycology, bryology, biogeography and biostatistical analysis (multivariate). Mr. Wishner has investigated wildlife movements in the Santa Susana Mountains of Ventura County; the effects of blasting on nesting birds-of-prey in the Santa Monica Mountains; the status of endangered reptiles and amphibians in the Santa Lucia Mountains of San Luis Obispo County; the condition of Critical Habitat for endangered mammals at Morro Bay; faunal inventory for La Purisima Mission State Historic Park; a valuation of damages assessment at Gaviota State Park for the State's Attorney General; a botanical evaluation of Malibu Lagoon State Beach and implications for the planned Lagoon restoration; and plan for restoration of lower Topanga Creek for California State Parks.



In the arena of resource planning and public policy, Mr. Wishner has a number of General Plan documents to his credit including a map-based inventory of biological resource areas within the City of Los Angeles for the City's Framework Planning process. Mr. Wishner also provides services to litigants in civil suits involving the disposition and valuation of biological resources. Mr. Wishner is frequently requested to perform critical reviews of environmental reports, in many cases for projects involved in litigation. Mr. Wishner has been instrumental in recent cases involving properties which serve as nesting habitats for the California least tern in Ventura County, habitat for wintering bald eagles at Big Bear Lake (San Bernardino County), and habitats for Stephens' kangaroorat in Riverside County. Currently, Mr. Wishner is involved in comprehensive planning efforts for facilities expansion at Santa Barbara Botanic Garden, and for long range land uses over the 6,000 acre Upper Las Virgenes Open Space Conservation Area (formerly Ahmanson Ranch), on behalf of the Santa Monica Mountains Conservancy.

As a recognized biologist and environmental professional, Mr. Wishner served for ten years on the County of Los Angeles' Significant Ecological Areas Technical Advisory Committee (SEATAC), with responsibility to review proposed projects and make recommendations to the applicants, and to the Regional Planning Department and Board of Supervisors. Mr. Wishner currently serves on the Board of the Los Angeles Chapter of the California Native Plant Society, on the Scientific Advisory Committee for the Cold Creek Preserve and the Mountains Restoration Trust, and as a Volunteer to the National Park Service at Santa Monica Mountains National Recreation Area, and to the Forest Service at Tahoe National Forest. Los Angeles Pierce College recognized Mr. Wishner as a Distinguished Alumnus on their 50th anniversary in 1998.



Scott M. Werner Biologist

Mr. Werner has 15 years of ecological research and consulting experience in California and the Southwest, and 6 years of biological consulting management experience in southern California. His expertise includes ornithology, special-status wildlife surveys and monitoring, breeding bird surveys, biological assessments, and managing construction monitoring teams for utility projects. He has worked for universities, Federal, State, and local agencies, and in the private consulting sector on biological resource studies. He has managed data-intensive research studies, managed large construction monitoring projects, and consulted extensively on southern California electrical utility projects. Mr. Werner has worked closely with planners, construction crews, natural resource agency personnel, law enforcement, and private landowners. He has successfully applied for research grants, presented his research at national scientific symposia, and written scientific papers published in respected journals.

He holds a U.S. Fish and Wildlife Service (USFWS)10(a)(1)(A) Recovery Permit for least Bell's vireo (Vireo bellii pusillus) and southwestern willow flycatcher (Empidonax traillii extimus) (TE-179013-0), and has worked under a group 10(a)(1)(A) Recovery Permit for California clapper rail (Rallus longirostris obsoletus), western snowy plover (Charadrius alexandrinus nivosus), and California least tern (Sterna antillarum browni). He has been authorized by the USFWS as a biological monitor for desert tortoise (Gopherus agassizii) and California red-legged frog (Rana draytonii). He has conducted surveys and monitoring and for California spotted owl (Strix occidentalis occidentalis), southwestern pond turtle (Actinemys marmorata pallida), coastal California gnatcatcher (Polioptila californica californica), coast horned lizard (Phrynosoma blainvillii), and burrowing owl (Athene cunicularia). Mr. Werner is also experienced with conducting surveys and monitoring for rare plants of southern California. He has identified and conducted monitoring for Federally and State-listed Braunton's milk-vetch (Astragalus brauntonii), Santa Susana tarplant (Deinandra minthornii), and Lyon's Pentachaeta (Pentachaeta lyonii). He has also identified and monitored endangered, threatened, and rare plants (1B) listed by the California Native Plant Society (CNPS) including Big Bear Valley woollypod (Astragalus leucolobus), Malibu baccharis (Baccharis malibuensis), Plummer's mariposa-lily (Calochortus plummerae), short-joint beavertail (Opuntia basilaris var. brachyclada), as well as many other CNPS List 3 (Review List) and List 4 (Watch List) plants.

Mr. Werner is currently working as the lead USFWS -approved Envicom biologist for surveys, monitoring, and reporting for the U.S. Environmental Protection Agency's (EPA) Radiological Study of Area IV on the Santa Susana Field Laboratory in eastern Ventura County. Tasks include daily monitoring of protected resources including known endangered and fully protected plant and animal species onsite, coordination with EPA contractors and activities, production of daily monitoring reports, biological resource clearance surveys and mapping, consultation with USFWS and California Department of Fish and Game on adaptive management issues, and production of quarterly monitoring reports to USFWS.

Mr. Werner has a long history of biological survey work in riparian systems and monitoring work crews in strict adherence to permit conditions. In 2010 he conducted pre-disturbance clearance surveys for breeding birds and other sensitive flora and fauna for the County of Ventura Watershed Protection District's Giant Reed Removal Program in the Upper San Antonio Creek Watershed in Ojai. He has surveyed for endangered least Bell's vireo in Ventura and Santa Clara Counties and has supervised vegetation trimming activities in the Prado Basin and Santa Ana River drainage of Riverside



County, an area that supports the largest extant least Bell's vireo population. As a wildlife biologist for the Santa Clara Valley Water District in San Jose, he conducted wildlife inventory studies in creeks, reservoirs, and estuarine habitats in Santa Clara County. Mr. Werner conducted extensive surveys for endangered southwestern willow flycatcher in San Bernardino County and along the Lower Colorado River from Nevada to the Mexican border.

Mr. Werner has conducted biological consulting and monitoring under Streambed Alteration Agreements, U.S. Army Corps of Engineers (USACE) 404 permits, and Regional Water Quality Control Board 401 Certifications. He was a Southern California Edison (SCE) consultant for 6 years and frequently managed construction monitoring teams responsible for biological resource monitoring and permit compliance. He managed a group of 5-10 biological monitors for the Tehachapi Renewable Transmission Project, Segments 1-3, a new transmission line spanning 82 miles in Los Angeles and Kern Counties built by Burns and McDonnell Corporation for Southern California Edison. Other recent multi-personnel monitoring projects include SCE's Transmission-line Road Maintenance on National Park Service Lands in the Santa Monica Mountains, and SCE's Bootlegger Circuit Rebuild Project on the Angeles National Forest.

Mr. Werner has a Master of Science degree in Wildlife and Fisheries Sciences from Texas A&M University, where he studied breeding ecology and habitat associations of locally declining populations of two bird species (Altamira Oriole and Northern Beardless-Tyrannulet) in the Lower Rio Grande Valley, Texas. He earned his Bachelor of Science degree in Ecology and Evolution from the University of California, Santa Barbara, where he conducted independent wildlife research projects on Vandenberg Air Force Base and in Monteverde, Costa Rica. Mr. Werner is proficient with ArcGIS software, having managed the GIS data and cartography on many of his projects. He constructed several nest inspection video cameras for his thesis research on Altamira orioles and is familiar with recent technological innovations in wildlife monitoring. He has attended numerous hands-on workshops on topics including California Red-legged Frog, Desert Tortoise, Southwestern Willow Flycatcher, Bird Banding, California Avian Conservation, and the California Native Plant Society's Rapid Vegetation Assessment. He is a member of The Wildlife Society, Cooper Ornithological Society, and California Native Plant Society.



James Anderson

Staff Biologist/Environmental Analyst

Mr. Anderson has more than eight years of experience in the environmental field, including employment in the private and public sectors and work experience in biology, forestry, and Geographic Information Systems (GIS). As a Biologist with Envicom Corporation, Mr. Anderson conducts biological surveys, site mapping, CEQA analysis, other biological studies in support of permitting and entitlement review processes, and biological monitoring. His biological field experience includes special-status plant surveys, vegetation mapping, identification of sensitive plant communities, bird surveys, forest health assessment, and delineation of Federal, State, and local jurisdictional wetlands and riparian habitat. He also prepares hydrology and water quality analyses for CEQA documents.

Mr. Anderson has conducted biological surveys and monitoring for the North Fork Arroyo Conejo Flood Maintenance Project (a project to reduce the risk of flooding of the North Fork of Arroyo Conejo Creek at the Hill Canyon Wastewater Treatment Plant in Thousand Oaks), prepared an Initial Study Biological Assessment for an oil exploration project in the Topatopa Mountains in Ventura County, and performed jurisdictional delineations of Army Corps of Engineers Waters of the U.S. and California Department of Fish and Game riparian habitat for the City of Agoura Affordable Housing Project and for Sinaloa Park (a component of the Rancho Simi Recreation and Park District within the City of Simi Valley). Mr. Anderson currently provides biological monitoring for the Santa Susana Field Laboratory Area IV Radiological Study Project, which encompasses 472 acres of habitat in the Simi Hills in Ventura County. His responsibilities include special-status species and habitat suitability surveys, presentation of environmental education programs, and monitoring project compliance with terms and conditions of the U.S. Fish and Wildlife Service Biological Opinion for the project and California Fish and Game code.

His other recent project experience includes biological surveys, vegetation mapping, and biological and/or hydrology/drainage impact analyses for the Ozena Valley Ranch Mining and Aquaculture Project in Ventura County, Willow Springs Phase II condominium development in Goleta, the Malibu Country Club in the Santa Monica Mountains, the Pepperdine University Campus Life Project in Malibu, the McCrea Ranch Visitor Center Project in Thousand Oaks, the Hilton Foundation's proposed headquarters and Foursquare Gateway Church property in Agoura Hills; the Sakaida and Sons Surface Mining Project in Sylmar.

Mr. Anderson has approximately 2,800 hours surveying plant communities in coastal southern California ecosystems. He has identified in the course of field investigations a number of endangered, threatened, and rare plant species and sensitive plant communities. Mr. Anderson worked on a vegetation map and classification of the Santa Monica Mountains and environs for the National Park Service, and has performed forest inventory and forest health assessments in a variety of California ecosystems while traveling extensively for the U.S. Forest Service. For Conservation International, he designed, implemented and evaluated surveys for monitoring endangered and threatened birds. He has attended protocol survey workshops recognized by the U.S. Fish and Wildlife Service (USFWS) for the desert tortoise (Gopherus agassizii) and the southwestern willow flycatcher (Empidonax traillii extimus).

Mr. Anderson has provided, as a function of previous employment, GIS and cartography services for ecologists and planners. He co-produced vegetation and geology maps and managed GIS databases at the Tundra Ecosystem Analysis and Mapping Laboratory at the Institute for Arctic and Alpine Research, and has provided GIS and other technical support for trail management planning for the National Park Service.



Mr. Anderson has a Master of Environmental Science and Management with a specialization in Conservation Planning from the University of California, Santa Barbara. During his master's degree program, he worked on projects involving identification of wildlife corridors and impacts of projected future development on wildlife movement, protected area network design, and abundance estimation of endangered and threatened species. Mr. Anderson has a Bachelor of Arts degree in Geography from the University of Colorado, Boulder with a concentration in Geographic Information Science, and a certificate in Community-Based Development from the International Institute for Sustainable Development at Colorado State University, which focused on participatory practices and capacity building for community development.



Jack H. Blok, Ph.D., MBA Director of Cartography

Dr. Blok has directed Cartographic and Special Projects for Envicom Corporation since 1996. In these capacities Dr. Blok oversees the acquisition, application, and measurement of geographic data derived from fieldwork, on-site photography, aerial photography, and digital public cartographic data used in environmental studies. Since joining the firm in 1980 Dr. Blok has applied his geographic interpretive skills to document existing site conditions and proposed project impacts in over 1,000 Environmental Impact Reports and Studies filed for public review with the State of California Clearinghouse for environmental publications. In every instance when any of these documents or studies has been legally challenged they have been upheld as complete and accurate by courts of law.

Special Projects include: the mapping of environmentally sensitive habitats and natural habitat linkages; measurement and mapping of environmental degradation associated with proposed infrastructure projects; and the assessment of project impacts upon visual resources in natural and built environments. Dr. Blok also participates in the determination of economic loss studies associated with adverse project impacts on public lands.

For Envicom Corporation's litigation support services Dr. Blok has supervised the preparation of cartographic and aerial imagery exhibits for courtroom use in support of expert witness testimony in eminent domain, land planning, and California Environmental Quality Act cases. Such exhibits are designed to illustrate the location, persistence, and change in land use patterns as determined by field survey and as evidenced by historical aerial photography and maps. Other litigation support projects have involved mapping the extent and severity of visual resource degradation, environmental hazards, and impacts to natural habitats caused by large-scale public and private construction projects.

Dr. Blok has participated in the design and evaluation of urban redevelopment projects, community land use plans, regional transportation plans, and city general plans. The general plans of the Cities of Azuza, West Hollywood, Redondo Beach, Huntington Beach, San Clemente, and Los Angeles are among the completed plans. The urban redevelopment projects include Little Tokyo and its adjacent Arts District in downtown Los Angeles and the Third Street Mall in Santa Monica and the 2000 Avenue of the Stars project in Century City.

Dr. Blok has advanced degrees in a number of subject areas supportive of his responsibilities. They include an M.A. in geomorphology/geography, U.C.L.A.; a Ph.D. in environmental resources assessment/geography/agricultural resource economics, Oregon State University; and an M.B.A. in finance from the Anderson School of Management, U.C.L.A.

Dr. Blok continues to offer courses in Physical Geography, Geography of California, Cultural Geography, and geographic assessment method labs at Los Angeles Pierce College (1996-present). Dr. Blok's previous university teaching positions include a joint faculty appointment in geography and urban and regional planning at East Carolina University, Greenville, N.C. (1973-78) and Instructor of Geography at California State University San Jose (1967-68).



Brian McCarthySenior Project Manager

Mr. McCarthy manages and prepares environmental documents in accordance with the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). He has over nine years of experience in the field of planning and environmental analysis. He has undertaken research and analysis pertaining to numerous environmental issues such as aesthetics, air quality, public services, public safety, recreation, noise, mineral resources, transportation, hydrology and water quality, and environmental justice, among others, in preparation of Environmental Impact Reports (EIRs), Environmental Impact Statements (EISs), Mitigated Negative Declarations (MNDs), and Mitigated Finding of No Significant Impacts (MFONSIs).

He serves the current role in managing on-going permit modification, condition compliance and Surface Mining and Reclamation Act (SMARA) compliance services for the Tapo Rock and Sand Products mining project near Simi Valley, CA and contributes to the EIR for the Sakaida & Sons EIR for mining CUP and Reclamation Plan in Los Angeles County. Past mining projects to which Mr. McCarthy has provided assistant management include the preparation of three sand and gravel mining EIRs (Grimes Rock, Best Rock and Wayne J Sand & Gravel) along Grimes Canyon Road (SR23) in the County of Ventura. He is manager of the Willow Springs II condominium development and Goleta Mixed-Use Village EIRs in the City of Goleta, and contributor to the 256-unit Senior living facility in the community of Orcutt in northern Santa Barbara County, the Pepperdine University Campus Life Project near Malibu, Pacoima/Panorama City Redevelopment Plan (approx. 7,000 acres) in Los Angeles, and the Hilton Foundation Corporate Headquarters development in Agoura Hills.

Other past projects include large Specific Plans of over 750 housing units and individual development permit proposals. Past projects have included the preparation of EIRs for the Village at Los Carneros and Citrus Village developments in the City of Goleta. He has contributed to the EIR for the Preserve at San Marcos development in Santa Barbara County, and served as manager of the environmental planning effort for the Heritage Valley Parks Specific Plan in the City of Fillmore. As a former Forward Planner for a developer, Mr. McCarthy managed the Master Planning of a 500-acre Master Planned Community in the Texas, involving environmental constraints assessment and developing a Master Plan site plan accordingly to accommodate availability of public services, such as sewer capacity and water availability, surface water hydrologic and traffic concerns.

In his past experience in the public sector, Mr. McCarthy served as a Commercial and Industrial Land Use Planner for the County of Ventura Planning Division. In this capacity, he was also the Ventura County SMARA Coordinator, responsible for the land use management of approximately 27 sand and gravel mining operations. As a Planner, he processed a multitude of land use entitlements (e.g. Conditional Use Permits), prepared associated CEQA environmental documentation, and conducted public presentations before the County Planning Commission and Board of Supervisors. Projects included Mining CUPs, wastewater treatment plants, and agricultural uses, among others.

Mr. McCarthy holds a Bachelor's Degree in Environmental Studies from the University of California Santa Barbara (UCSB). In his studies he completed coursework in advanced environmental planning and environmental impact analysis. He obtained his Master's Degree in Management (MBA) from Boston College. He has conducted a guest lecture on CEQA at Westmont College.



Mr. McCarthy is a member of the California Chapter of the American Planning Association (APA), the Association of Environmental Professionals (AEP), and the Urban Land Institute (ULI).



Charles Cohn Environmental Analyst

Mr. Cohn assists in the preparation of CEQA documentation and permit applications. His prepares MNDs, conducts environmental research and analysis for EIRs, and assists in preparing permit applications. He has recently assisted the Rancho Simi Recreation and Park District in obtaining permits for the restoration of the Medea Creek sinkhole, with tasks that included preparation and filing permit application forms with the California Department of Fish and Game, the Regional Water Quality Control Board, and the US Army Corps of Engineers. He has contributed to EIRs, including preparation of public services and infrastructure impact analyses, for the Willow Springs II and Westar Mixed-Use Village projects in Goleta, the Orcutt Union School District Key Site 17 project, and the City of Los Angeles Community Redevelopment Agency's Pacoima-Panorama City Redevelopment Plan Amendment/Expansion Project EIR. His experience also includes water quality monitoring of streams and shorelines by sampling surface waters in the Calleguas Creek and Santa Clara River watersheds. This sampling includes on-site testing of water quality, sample collection for lab analysis, and documentation.

Mr. Cohn received a Bachelor of Science degree in Environmental Science from California State University Channel Islands with an emphasis in natural resource management. A major area of his studies focused on riparian habitat restoration, baseline data gathering and documentation, and water quality issues. He currently volunteers his time as a water quality monitor for the Ventura Coast keeper (VCK) organization, and is also a habitat restoration volunteer with the Ojai Valley Land Conservancy and the Ojai Valley Green Coalition.



Erin E. EvartsGIS Analyst / Environmental Analyst

Ms. Erin E. Evarts serves as Envicom Corporation's in-house Geographical Information Systems (GIS) Specialist. Ms. Evarts uses GIS as a means of accessing, analyzing and displaying spatial information in an accurate and efficient manner to support the resource management and planning process. Additionally, Ms. Evarts conducts archaeological investigations and has contributed to various sections of CEQA documents including cultural resources, aesthetics, and alternatives, as well as environmental constraints analyses. Ms. Evarts project experience includes mapping and analysis of jurisdictional delineations, biological resources, sensitive species, GIS/CAD integration and conversion, site suitability analysis, protocol surveys, 3-D analysis, terrain modeling, and integration of GPS/GIS technologies. She has worked on numerous projects, including the Santa Barbara Botanic Garden Vital Mission Plan EIR, Pepperdine University Campus Life Project EIR, Wildwood Stable Estates EIR, Conrad N. Hilton Foundation Headquarters Environmental Constraints Analysis, and LAUSD v. Maddox Highest and Best-Use Study. Ms. Evarts has utilized spatial analysis and GIS to relate and analyze environmental factors and their role in wildland fire protection and abatement for the Pepperdine University Wildland Fire and Landscape Management Plan and Triangle Ranch residential development.

Ms. Evarts has worked as a cultural resource and GIS consultant for private, state and federal agencies throughout Santa Barbara, Ventura and Los Angeles counties, including the National Park Service (NPS), Santa Monica Mountains Conservancy (SMMC), Mountains Recreation and Conservation Authority (MRCA) and Mountains Restoration Trust (MRT). Previous projects include Archaeological Phase I of King Gillette Ranch, Archaeological Phase I Survey of SMMC and MRCA property Upper Las Virgenes Canyon Open Space Preserve (Ahmanson Ranch), Solstice Canyon Archaeological monitoring and Phase III, establishment and maintenance of the Santa Monica Mountains National Recreation Area (SMMNRA) Cultural Resource GIS databases, georeferencing, digitizing and conversion of hundreds of historic hard copy and raster datasets to GIS layers for detailed analysis of population growth, density, and land use pattern within the Santa Monica Mountains, San Fernando Valley, and other portions of western Los Angeles County.

Ms. Evarts received a Bachelor of Arts Degree in Anthropology with an emphasis in Archaeology from San Francisco State University. Her major areas of study focused on analysis of rock-art sites in Santa Barbara County, analysis of Native American Indians use of fire in Yosemite Valley, and utilizing GIS and cartographic techniques for archaeological site organization and analysis of Ohlone/Costanoan tribal networks. In 2004 Ms. Evarts received a certificate in Geographic Information Systems (GIS) from Ventura College. Her studies focused on using GIS and Spatial Analyst to determine a least-cost analysis of possible Native American Indian trail networks between known village sites in the Santa Monica Mountains. Ms. Evarts received a Master of Arts degree in Geography at California State University, Northridge. Projects have included a constraints and opportunities study of agriculture in the Santa Monica Mountains, focusing on the growing trend of vineyard production through the mountains and the overall ecological impact. Ms. Evarts is also a member of the Society for California Archaeology, the California Geographic Information Association, and the Association of Environmental Professionals.



Cheryl Hogan Environmental Analyst/Planner

Ms. Hogan serves as an Environmental Analyst/Planner for Envicom Corporation. She conducts research, impact analysis and prepares environmental documents for California Environmental Quality Act (CEQA) compliance, including Environmental Impact Reports (EIRs), Mitigated Negative Declarations (MNDs), Negative Declarations (NDs), Notices of Exemption, and Initial Studies (ISs).

Ms. Hogan is currently assisting in the preparation of environment impact analyses for the Pepperdine University Campus Life Project EIR. This project proposes upgrades and new facilities for Pepperdine's Malibu campus to improve and enhance student living conditions and on-campus activities for students. The proposed project involves the upgrade of existing aged structures, the demolition of and replacement of deteriorating student housing, and new athletics, recreation, parking, wellness, and operational facilities.

Prior to joining Envicom Corporation, Ms. Hogan worked for the City of Redondo Beach Planning Department as a planning intern. In this capacity she conducted site plan reviews, prepared CEQA documentation, and wrote other legal documentation such as covenants, ordinances, and modifications for residential and commercial properties.

Ms. Hogan received a Bachelor of Art degree from the University of California, Los Angeles and a Master's Degree in Urban and Regional Planning from the University of California, Irvine. Areas of focus in her course of study at Irvine include land use, housing, and environmental law. She received the Architecture Foundation of Orange County Prize for Excellence in Urban Planning for her graduate Professional Report.



Christopher BoyteGraphic Manager / GIS Technician

Mr. Boyte serves as Envicom Corporation's graphic manager and GIS technician. Responsible for the creation of effective analytical graphics and exhibits, technical illustrations, and presentation materials applied to the firm's environmental documents, display presentations, website design and maintenance, and marketing resources. Mr. Boyte also provides a wide variety of specialty graphic applications and technical support to GIS technology including; aerial photography analysis and exhibits, detailed biological mapping, visual analysis, visual site renderings, including photographic simulations/renderings, CAD support, 3D modeling and rendering and, computer generated mapping.

Mr. Boyte is highly experienced and expert in a wide variety of computer applications on Macintosh and Windows PC systems including; ArcGIS 9.3, Adobe Photoshop, Illustrator, Acrobat, In-Design, DreamWeaver, and Flash. He is also adept in Microsoft Word, PowerPoint and Excel.

In addition to his graphics and visual analysis work, Mr. Boyte has pioneered unique graphic techniques and has applied highly customized technical graphics for use in meetings and public displays/demonstrations. Mr. Boyte also oversees document preparation and provides web/internet design and support, and hardware/network maintenance.

Mr. Boyte has contributed to Environmental Impact Reports, General Plans, Permit Applications, Biological Surveys, and Master Plans. Mr. Boyte's recent works includes: Pepperdine University GCP EIR and Grading Permitting; Gulls Way California Coastal Commission Permit Application; Debs Park Master Framework Plan; Claremont Universities North Campus Master Plan EIR; Sunset Millennium EIR; Federal Express Valuation; Lake Sherwood Biological Studies and Permitting; Soka University Operational Phases; Los Angeles Unified School District v. Meruelo Maddux Highest and Best-Use Study; Hilton Foundation Constraints/Opportunities Analysis; Pajaro Valley Unified School EIR; 24400 Calabasas Road Office Project; and the 6060 Center Drive Hughes Solar Access Study.

Prior to joining Envicom Corporation, Mr. Boyte owned his own graphic design business, Visuals Design, and was a freelance designer for several entertainment agencies in Southern California. His projects have included website design and maintenance, corporate identities, direct mailer design, advertising for national publications, video editing, package design and illustration.

Mr. Boyte has a Bachelor of Science degree from Cal Poly, San Luis Obispo in the Applied Art & Design major, which he received on June 14, 1990. He recently completed his certificate program for ArcGIS at Pierce College, on December 7, 2009.



Zitney & Associates is a sole proprietorship established in 1991 by Greg R. Zitney. The firm provides consulting services in land use planning and permitting, environmental impact analysis, and project management. Areas of particular expertise and experience include CEQA and NEPA procedures and document preparation; SMARA (Surface Mining and Reclamation Act) compliance and preparation of reclamation plans; management of permit applications requiring multiple agency coordination, oversight and quality control of technical studies, and strategic advice for problem solving and ultimate project success; and contract/coordinator advisory services to lead agencies for SMARA and CEQA compliance and related peer reviews. Mr. Zitney brings over 39 years of professional experience on a wide range of projects throughout California and eight other western states.

Professional services offered include:

- Environmental Issue Identification and Problem-Solving
- EIR/EIS Preparation and Evaluation
- Agency and Public Liaison
- Permit Compliance and Processing
- Mining and Reclamation Plans
- Strategy Consultation/Fatal Flaw Evaluations
- Project Management
- Mitigation, Monitoring, and Management Plans



Relevant Project Experience Examples

City of Fremont SMARA and CEQA On-Call Services

Client: City of Fremont

Greg Zitney of Zitney & Associates has been performing a variety of SMARA and CEQA related services on an on-call basis since 2001. The City has two quarries in its jurisdiction – the Mission Clay Products Quarry and the Dumbarton Quarry. Services provided include:

- · Guidance and oversight of the process of bringing the Mission Clay Products quarry current with respect to its reclamation plan. This quarry closed operations in 1992.
- Advice to the City regarding SMARA enforcement procedures and preparation of draft Notices of Violation and Orders to Comply as required.
- · Review of financial assurances for both quarries. The financial assurance for the Mission Clay Products Quarry was determined to be inadequate and recommendations were made to the City for adjustments.
- · Research and advice on environmental and neighborhood issues regarding the Dumbarton Quarry.
- Review of the adequacy of reclamation plans and activities for Dumbarton Quarry, and advice to the City regarding SMARA compliance for amendments.
- · Coordination with the Office of Mine Reclamation for site reviews.
- · Annual SMARA inspections.
- · Preparation of CEQA documents for the Mission Clay Products reclamation plan.
- · Preparation of portions of staff reports for the City's Planning Commission
- · General advice regarding City procedures for SMARA compliance as the lead agency.

Shamrock Materials SMARA, CEQA, and Permitting Services

Client: Shamrock Materials, Inc.

Zitney & Associates has been providing a variety of services related to SMARA, CEQA, and general permitting requirements to Shamrock Materials in Sonoma and Marin counties for the past 17 years. Services have included:

- · Preparation of mining and reclamation plan applications for instream gravel mining projects.
- · Preparation of applications for industrial use permits and CEQA Initial Studies for aggregate processing facilities.
- Recruitment and management of consultants in specialized fields as needed.
- · Ongoing advisory services for permitting and environmental issues.



- Preparation/review of CEQA environmental documents in collaboration with lead agencies.
- · Consultation with federal, state, and local resource agencies.

Shamrock's key projects have primarily been located in or near the Russian River channel and have involved very complex and controversial issues.

Peer Review of the San Rafael Rock Quarry Final Reclamation Plan and Financial Assurance Cost Estimate

Client: County of Marin

San Rafael Rock Quarry (located in an unincorporated area near the City of San Rafael in Marin County) recently updated its use permit and reclamation plan as a result of litigation (initiated by neighboring residents and the County) and subsequent court orders, which included a new EIR. The quarry is directly adjacent to the bay and has been in operation since 1972. The updated use permit and reclamation plan included 172 conditions of approval. Zitney & Associates was retained by the County to complete a peer review of the most recent updated reclamation plan submitted as a result of this process. The primary tasks of the peer review are to verify compliance with all requirements of SMARA and the conditions of approval, determine adequacy of the Financial Assurance Cost Estimate, and evaluate certain geotechnical issues. This review is currently underway.

Santa Clara County Countywide Trails Master Plan Update EIR

Client: 2m Associates (Prime Contractor) for County of Santa Clara

Mr. Zitney provided overall CEQA compliance management and prepared the Initial Study and draft and final Program Environmental Impact Reports for this highly successful 50-year master plan. This was a very controversial project involving a wide range of environmental issues and private property concerns. Environmental concerns were identified early in the master planning process and incorporated into the plan in the form of policies and implementation procedures. Because environmental issues were resolved early in the planning process, the Program EIR satisfied all CEQA requirements and was not legally challenged. An important component of this project was ongoing coordination with a Technical Advisory Committee (TAC) chaired by then Santa Clara County Supervisor Mike Honda. The master plan received an award from the Association of Environmental Professionals as an "Outstanding Environmental Resource Document".



Devers to Mirage 220 kV Transmission Line EIR

Client: California Public Utilities Commission

While with his former company Western Ecological Services Company, Inc. (WESCO), Mr. Zitney served as Project Mananger for preparation of draft and final Environmental Impact Reports for a proposed 15-mile high voltage transmission line and related substations. The project was located in sensitive desert environments near Palm Springs. Several alternative routes and substation sites were evaluated in the EIR to determine the environmentally superior combination of routing and substation locations. Many sensitive issues were involved, including endangered plants and wildlife, sensitive soils, visual impacts, and archaeological resources, among others. Mr. Zitney played a major role in organizing and conducting a scoping meeting and public hearings for the CPUC. Part of CPUC's review of the project included administrative law hearings, for which Mr. Zitney provided expert witness testimony as Project Manager of the EIR. This EIR received an award from the Association of Environmental Professionals as an "Outstanding Environmental Document."

Peer Review of the Petaluma Quarry Final Reclamation Plan

Client: County of Sonoma and City of Petaluma

Petaluma Quarry (located on the west side of U.S. 101 near the Petaluma River bridge) closed down after operating for over 50 years. The site was sold to a developer who submitted a final reclamation plan and an application to develop the site for residential use. Mr. Zitney of Zitney & Associates was retained to complete a peer review of the final reclamation plan to determine its adequacy under SMARA and Sonoma County's Surface Mining and Reclamation Ordinance. Several deficiencies were identified and recommendations were made to correct them and clarify inconsistent or confusing information. Both the City and the County were pleased with Mr. Zitney's report and the applicant was directed to submit a revised reclamation plan.

Mark West Quarry Mining and Reclamation Plan, Sonoma County, California

Client: BoDean Company, Inc.

Mr. Zitney was the lead consultant and project manager for preparation of a mining and reclamation plan for a major expansion of this rock quarry in Sonoma County. He retained and managed the efforts of several specialized consultants to complete environmental baseline studies and prepare a mining and reclamation plan for application to the County. Mr. Zitney organized the structure of the plan, guided the efforts of consultants to assure required information was generated, provided quality control review for SMARA compliance, authored several sections, and assembled the final plan. The County sent the plan to the State for review as required under SMARA. The Office of Mine Reclamation (OMR) stated the following in their comment letter to the County: "OMR commends the applicant and the County in its effort on preparing the plan. This



document would be suitable for future use as an example of a well-prepared surface mining and reclamation plan for this type of project."

Instructor for UC Davis Extension Course on the Surface Mining and Reclamation Act Client: UC Davis Extension

Mr. Zitney is the lead instructor of a one-day UC Davis Extension course on SMARA and has been giving this course since 1996. His co-instructor for the course is Mr. James Pompy, currently the Director of the State's Office of Mine Reclamation. The course provides a comprehensive overview of the SMARA statutes and regulations, covering such topics as reclamation standards, annual inspections, lead agency responsibilities, relationship to CEQA, and financial assurances. Several case studies from Mr. Zitney's project experience are used to illustrate the application of SMARA. This course is offered once per year and typically has 30 to 40 attendees.

Mission Valley Rock Quarry Expert Witness Services

Client: Reed Smith Crosby Heafey LLP (Representing defendants Alameda County, City of San Francisco, et. al.)

The expansion of Mission Valley Rock Quarry and its related reclamation plan was the subject of litigation brought about by local citizen and environmental organizations. Greg Zitney of Zitney & Associates was retained by the law firm representing the defendants to provide expert witness services regarding SMARA and CEQA procedures as they related to topics in the cause of action. Mr. Zitney prepared a written declaration and was prepared to provide expert testimony at trial if required. This case received a summary judgment in favor of the defendants on October 31, 2003. This judgment was upheld by the Appellate Court and was denied a further appeal by the California Supreme Court.

Environmental Coordinator Roles

Clients: City of San Rafael and Town of Tiburon

Mr. Zitney was retained by the City of San Rafael and the Town of Tiburon as a contract Environmental Coordinator for two separate controversial development proposals in Marin County. Primary responsibilities included assuring CEQA compliance on behalf of the respective lead agencies, oversight of the EIR consultants, review and approval of CEQA documents, and general CEQA compliance advisory services. Both projects included proposals to annex substantial additional land to the respective jurisdictions.



Greg R. Zitney

Personal Résumé January 2011

OVERVIEW:

Mr. Zitney is an Environmental Planner with over 39 years of professional experience. He has participated in more than 600 environmental resource inventories, planning studies, and impact assessments. His primary areas of expertise include project management; CEQA, NEPA, and SMARA procedures; EIR and EIS preparation; state and federal regulatory requirements and permit processing; natural resource studies; reclamation and mitigation planning; and wildlife biology.

EDUCATION:

University of California at Davis Bachelor of Science in Zoology, with major emphasis in Wildlife Management and Ecology

EMPLOYMENT EXPERIENCE:

Zitney & Associates Novato, California Principal	1991 - Present
Western Ecological Services Company, Inc. (WESCO) Novato, California President and CEO	1975 - 1991
The SWA Group Sausalito, California Project Manager, Wildlife Biologist	1974 - 1975
James A. Roberts Associates, Inc. Sacramento, California Wildlife Biologist	1971 - 1974

PROFESSIONAL AFFILIATIONS:

Association of Environmental Professionals The Wildlife Society

CERTIFICATIONS:

Certified Wildlife Biologist, The Wildlife Society Certified Stormwater Inspector, National Stormwater Center

Greg R. Zitney

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COMMENDATIONS:

Received a Certificate in Recognition of an "Outstanding Environmental Document" from the Association of Environmental Professionals as Project Manager for the Devers to Mirage 220 kV Transmission Line Environmental Impact Report

Received a Certificate in Recognition of an "Outstanding Environmental Document" from the Association of Environmental Professionals as Project Manager for the Pescadero Creek County Park Natural Resources Management Program

Member of consultant team for the Windsor Lakes Reclamation Plan that received a Merit Award from the California Council of the American Society of Landscape Architects

Member of consultant team which received recognition for an "Outstanding Environmental Resource Document" from the Association of Environmental Professionals for the Santa Clara County Trails Master Plan Update

Served as Project Manager for the SP Milling Ventura River Plant Reclamation Plan which received the 1995 award for "Excellence in Reclamation Planning" from the California Mining Association

Received a Special Award in Recognition of an "Outstanding Planning Document" from the Association of Environmental Professionals as Principal Author of the Richardson Bay Dock and Boat Study, an assessment of the cumulative effects of dock development and boat traffic on wildlife and the Audubon Society's Richardson Bay Wildlife Sanctuary

GEOGRAPHIC EXPERIENCE:

Mr. Zitney has extensive project experience throughout the state of California. He has also worked on a variety of environmental planning projects in Colorado, Wyoming, Utah, Arizona, Idaho, and Oregon.

EXPERT WITNESS AND TESTIMONY EXPERIENCE:

Before the California Water Resources Control Board on behalf of El Dorado Irrigation District, regarding effects of a major water supply project on wildlife

Before the California Energy Commission, on behalf of Pacific Gas & Electric Company, regarding impacts of a proposed power plant on wetlands and wildlife

Before the California Public Utilities Commission (CPUC) on behalf of the CPUC, the California Energy Commission, and Sacramento Municipal Utilities District, regarding impacts and mitigation measures for three transmission line projects

Expert witness services in connection with litigation involving various CEQA and SMARA issues for mining operations

MISCELLANEOUS ACTIVITIES:

Board of Directors, Western Section of The Wildlife Society, 1977-1978

Chairman of the 1983 Statewide Conference of the Association of Environmental Professionals

Board of Directors, Association of Environmental Professionals, 1983-1985

Retained by the Federal Government, Western Regional Training Center, to organize, prepare a curriculum manual for, and teach a 3-day course titled "Environmental Impact Documents." Course covered the law and guidelines of NEPA and CEQA, content requirements for EISs and EIRs, and proper techniques for managing and writing environmental documents and conducting environmental analyses. Course was designed for government employees and was presented 3 or 4 times per year during the period 1982-1986.

Greg R. Zitney

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Instructor for Basic and Advanced CEQA Workshops sponsored by the Association of Environmental Professionals and Association of Bay Area Governments, 1993-2010

Lead instructor for a University of California Extension Course on California's Surface Mining and Reclamation Act (SMARA), 1996-2011

Numerous speaking engagements, lectures, presentations, and panel appearances before groups such as University of California Extension classes, the California County Planning Commissioners Association, Construction Materials Association, Bay Planning Coalition, Building Industry Association, Commercial Brokers Association, other professional and trade organizations, and local government commissions and boards. Representative topics included how to effectively address CEQA/NEPA requirements, environmental and business ethics for consultants, Section 404 requirements and wetlands mitigation, reclamation case studies, mine site inspections, environmental sensitivity and constraints analyses, endangered species, and effective mitigation planning. Have also organized and conducted several workshops and scoping meetings for community groups relative to various proposed projects.

PROJECT EXPERIENCE:

The following highlights Mr. Zitney's project experience by major category:

Mining and Reclamation — Over 140 projects involving sand and gravel, coal, uranium, gold, dolomite, and hard rock. Projects have been located in California, Utah, Colorado, and Wyoming. Primary responsibilities have included development of reclamation plans, project management, liaison with regulatory agencies on behalf of mining companies, permit processing, biological resource inventories, general client advisory services, SMARA advisor to lead agencies, peer reviews, and mine site inspections for SMARA compliance.

Rights-of-Way — 12 projects involving transmission line and/or pipeline environmental assessments, alternative routing studies, and EIR/EIS management. Projects have ranged from a few miles to 240 miles in length, and have been located in northern and central California, the Sierra Nevada, and the southwestern desert environments of southern California and Arizona.

Parks and Open Space — 15 projects involving resource inventories, environmental assessments, and supervision of Natural Resource Management Plans. Projects have included Santa Clara County Trails Master Plan, Golden Gate National Recreation Area, Sequoia National Park, and various county and city parks and open space areas in Marin, Sonoma, and San Mateo counties.

River Corridors — Over 35 projects involving more than 20 rivers in California, Oregon, and Idaho. Projects have included Waterway Management Plans, sand and gravel extraction, hydroelectric development, shoreline residential and marina development, and Wild and Scenic River eligibility and classification studies. Served as Project Manager for the North Fork Kern Wild and Scenic River Study and EIS, the first such study delegated to a private contractor by the U.S. Forest Service.

Residential Development — Over 160 projects of various sizes throughout California and in 4 other western states. Primarily served as Project Manager and/or author of EIRs, and in a site planning function relative to environmental constraints analysis, particularly in regard to wetlands, endangered species, and other biological resource issues. Several projects included resort, hotel, and golf course components.

Miscellaneous — Over 150 other environmental analysis and planning projects including: regional planning studies such as County General Plan updates and Specific Area Plans; ski area master plans and EIRs; water supply projects; small hydroelectric development proposals; industrial/commercial developments; and wildlife impact and management studies.



Education

BS, Transportation Engineering (Honors), California Polytechnic State University, 1975

Registration

Civil Engineer CA, 30489, 1979 Traffic Engineer CA, 1385, 1981

Years in Practice – 35

Memberships

American Planning Association American Public Works Association American Society of Civil Engineers Association of **Environmental Planners** California Alliance for Advanced Transportation Systems California Public Parking Association Civil Engineers and Land Surveyors of California Institute of **Transportation Engineers** International Municipal Signal Association **National Parking** Association Tau Beta Pi Transportation Research Board Gilroy Rotary Club Gilroy Chamber of Commerce

Mr. Higgins has directed and performed numerous planning and design projects during his 35-year career. He has extensive operational experience, including serving as a city traffic engineer. Specific experience includes traffic impact analyses; conceptual and final highway, street system, and subdivision design; traffic signal design; signing and striping design; transit system planning and design, traffic volume and speed surveys; safety analysis; traffic control device warrant studies; traffic control device inventory; capacity analysis; circulation studies; parking studies; parking facility design; conceptual interchange design; pedestrian and bicycle studies; transportation systems management; transportation demand management; project representation; community traffic committee organization; railroad design coordination, grading and drainage design; structural design; project management; construction inspection; contract administration; and expert witnessing in personal injury and wrongful death litigation.

Selected Project Experience

California Polytechnic State University, San Luis Obispo, CA

Principal-In-Charge. This traffic study involved an analysis of traffic impacts associated with the development of the proposed faculty housing project on California Polytechnic State University Site H-8. Site H8 is located on the north side of Highland Drive, west of Highway 1 in San Luis Obispo, California. The project involved the development of 80-units for faculty housing. The project would be accessed from Highland Drive and involved the development of 84 dwelling units to be utilized for faculty housing. Traffic operational analyses including traffic control and channelization were evaluated for all analysis scenarios. Pedestrian, bicyclist and transit access was also evaluated. Mitigation measures were recommended where warranted.

Brisco Road-Halcyon Road/Hwy 101 Interchange Project Study Report

Principal-In-Charge. The scope of work involved improving the capacity, safety and traffic operations at the Brisco Road-Halcyon Road/Highway 101 interchange. Included in the project study report (PSR), the project evaluates various low-cost operational improvement options such as roundabouts at the ramp intersections for Caltrans and express bus stops as well as park-and-ride lots for Arroyo Grande that may be implemented within the study area. Improvements to the Brisco Road-Halcyon Road/Highway 101 interchange are essential to the continued growth in communities surrounding the City of Arroyo Grande.

San Luis Obispo County Traffic Monitoring

Principal-In-Charge. The project involved collection of hourly seven-day counts for throughout unincorporated areas and most cities in San Luis Obispo County. A total of 73 road segments were counted, once in the summer and again in the fall seasons.

Highway 1/Highland Drive Traffic Signal Modification Improvements

Principal-In-Charge. HMM prepared a complete set of Plans, Specifications and Estimates (PS&E) for the traffic signal modification at the intersection of Highway 1/ Highland Drive. The project included coordination with PG&E, Caltrans, and the City of San Luis Obispo.

Highway 46 West Corridor Study

Principal-In-Charge. The project required the analyses of corresponding traffic operations and recommendations of appropriate mitigations and an access management plan for the Highway 46 corridor Traffic operations along the corridor were analyzed for each of the study intersections, for both existing and future conditions. The analysis included intersection channelization, street lighting, traffic control, sight distance, geometrics and signing. In addition, the adequacy of the shoulder widths, bridge widths, passing sight distance and striping along Highway 46 was analyzed.

San Luis Obispo North Coast Area Plan

Principal-In-Charge. The purpose of the study was to identify future transportation needs in the coastal Towns of San Simeon and Cambria. This report included both existing and future General Plan traffic analysis for total of 10 intersections and seven road segments in the City of Cambria, California.



Education

B.S. Civil Engineering, San Jose State University, San Jose, CA, 1999

Registration

TE - CA No. 2429, 2007

Years in Practice -

Memberships

Institute of Transportation Engineers Chi Epsilon Tau Beta Pi

Experience Summary

Mr. Waller has performed numerous traffic analyses for a wide array of projects, including housing subdivisions and shopping centers, project study reports, quarries and batch plants, and master plans and general plan updates. Mr. Waller has experience performing traffic analyses throughout the greater Monterey Bay Area, plus San Luis Obispo and Southern Santa Clara Counties. He has also performed full traffic signal warrant evaluations, intersection sight distance evaluations, collision history reviews and parking supply and demand studies. Mr. Waller's specific areas of expertise include traffic impact analyses and project impact evaluation. Mr. Waller is experienced in various traffic analysis software packages, including Synchro and HCS.

Selected Project Experience

Quarries

Hildreth Creek Quarry, Madera County, CA

Project Manager. This traffic analysis was performed for a 3,000,000 ton-per-year quarry, asphalt and concrete batch plants, and construction materials recycling center in eastern Madera County. The traffic analysis for the project involved multiple intersections along a state highway along which substantial growth is anticipated over the next decade. A customized trip generation was developed for the project, based upon the projected project employment and operations.

Hidden Canyon Quarry, Monterey County, CA.

Project Manager. A traffic analysis was performed for a 300,000 ton-per-year quarry northeast of Greenfield in Monterey County. The analysis included a review of project access alternatives to US 101 through the community of Greenfield, as well as potential truck queuing impacts at an intersection adjacent to an existing railroad crossing.

Handley Ranch Quarry, Monterey County, CA

Analysis Assistant. This project involved a traffic analysis for a 1,500,000 ton-per-year quarry, asphalt and concrete batch plan, and construction materials recycling center northeast of Gonzales in Monterey County. The project included analysis of a proposed private roadway that would shorten travel time and distance for quarry-bound trucks, as well as a design of an intersection channelization improvement at a nearby freeway interchange.

San Luis Obispo County

Baker Property, Pismo Beach, CA

Project Manager. This analysis involved a mixed-use development involving residential, commercial, office, and retail space on the border of Pismo Beach and Arroyo Grande. The project involved analysis of operations along an arterial corridor bordering the project site, along with an adjacent interchange. Project access was reviewed, including a potential sight distance problem and methods to discourage use by project traffic of an existing loading bay alley behind a nearby shopping center.

Arroyo Grande General Plan, Arroyo Grande, CA

Analysis Assistant. Future traffic forecasts were developed for an update of the City of Arroyo Grande General Plan. A new traffic demand model was created for the Five Cities region (of which Arroyo Grande is a part), in order to develop future traffic volumes for multiple street network and land use alternatives. Levels of service analysis was performed and signalization warrants were evaluated for eleven key intersections throughout the city. Recommended intersection improvements were developed for deficiently-operating intersections.

Golden Hill Business Park Expansion, Paso Robles, CA

Project Manager. The project was a proposed new business park and re-subdivison of an existing business park in northern Paso Robles, California. Level of service analysis was performed of various intersections near the project site. Also addressed were a future secondary access to the study area and the potential for a freeway or expressway upgrade along nearby Highway 46.





Planner/Engineer III

Education

Bachelors of Technology, (Civil Engineering), L.D.C.E., India M.S. Urban Planning and Transportation, San Jose State University, CA

Years in Practice - 6

Memberships

American Planning Association US Green Building Council Women's Society of Transportation Engineers Institution of Transportation Engineers

Experience Summary

Ms. Saxena has experience in transportation planning and land development. During her career, she has worked on various Traffic Impact Studies, as well as Parking and Corridor Studies. She has a strong knowledge of local development codes, regulations and improvement standards. Ms. Saxena is proficient in many different analysis software programs, including Traffix, Synchro, Sim-Traffic, HCS+, Cube, AutoCAD, LDD and ArcGIS. She has excellent verbal and written communication skills and strong analytical skills.

Transportation Planning Project Experience

Study of SR 46 East Roadway Improvement, Paso Robles, CA

Evaluated the need for roadway improvements in the northern section of city of Paso Robles to support approved and proposed near term development and to enhance operations along the SR 46 East Corridor. The study includes intersection level of service analysis using Synchro and traffix. Analysis of the potential impacts of proposed roadway improvements by the city of Paso Robles This project was initiated by City of Paso Robles to increase local circulation access and reduce vehicle travel in the SR 46 corridor. Lead all tasks associated with the Transportation Inventory Assessment, which included the development of Synchro models and traffix network, an analysis of historical and future traffic data, and a review of local developments and local comprehensive plans. As the Project Engineer/Planner for the Improvement Study phase of the project, I lead the traffic operations analysis tasks, facilitated consensus-building at stakeholder meetings, and was one of the primary points of contact for the Client.

GIS Mapping for High Speed Rail, Sylmar to Palmdale, CA

Worked and prepared GIS maps for the Feasibility Analysis Report for High Speed Rail project alignments in the Palmdale to Sylmar corridor. This included incorporating information from different cities like Santa Clarita, Acton etc and compiling data from different resources to creates maps with alternative alignments and future land uses.

COMPANY PROFILE

Balance Hydrologics (Balance) is a specialized firm, recognized as being a leader in the analysis of hydrologic processes affecting quarries and mines -- watershed, channel, ground water and wetland dynamics. Our firm provides comprehensive experience in areas of particular significance with aggregate and mining operations. Our staff consists of over 30 highly qualified professionals with particular expertise in:

- Quarry and mining hydrology
- Management of runoff, erosion and sedimentation
- Surface water and groundwater hydrology, and their interaction
- Water quality evaluation and control
- Physical effects on wetland and stream environments
- Geomorphology of channels, surfaces, and slopes.
- Hydraulics and sediment transport in natural channels.
- Recharge management, and its viable use in mitigation
- Aguifer evaluation and de-watering assessments.
- Remote sensing image interpretation

Our Goal

One of our principal goals is providing land managers, engineers, planners, foresters, and biologists with key information needed to plan for sustainable land uses. Our emphasis is on field trials and investigations, supplemented where needed by simulations and archival/historical analyses. Most investigations are designed to measure and manage the effects of specific land uses on aquatic, riparian, or wetland habitat values. Many projects involve measuring variations in streamflow, groundwater conditions, sediment transport, water quality and temperature, hillslope and channel stability, scour and fill, or the exchange of water and salts between streams and adjacent alluvial sediment or tidal plains.

Our Strategy and Expertise

Our problem-solving strategy is based upon a balanced technical approach, utilizing a team of hydrologic professionals with diverse backgrounds in engineering, hydrology, geomorphology, geohydrology, geochemistry, and natural resource management. The core staff of senior-level, field-oriented specialists can provide informed opinions and analyses on short notice. Their varied professional backgrounds provide a balanced, flexible, and practical approach to problems, with consideration and integration of multiple technical issues. We serve our customers and cooperators from our main offices in Berkeley, with satellite offices in Santa Cruz, San Rafael, Auburn, and Truckee. This organization provides the benefits of local offices with central 'think-tank' capabilities.

Regulatory Expertise and Clientele

Balance Hydrologics regularly works with a wide range of environmental regulations including environmental impact analyses (NEPA and CEQA), wetlands, water rights, tribal fisheries, FEMA and FIA regulations, and Clean Water Act and/or Porter-Cologne standards. Our clientele is drawn in roughly equal proportions from managers of large land holdings (including water districts, land trusts, and tribes or native corporations), agency staff, and engineering and environmental firms seeking our specialized applications. An expanded list of clients is available upon request.

Modeling capabilities

Balance Hydrologics' team of engineers and scientists are well-versed in the full range of hydraulic and hydrologic modeling platforms used in the analyses of natural channels, estuaries, hydraulic structures, bridges, pipe crossings, storm drains, and watershed runoff. We are experienced in the use of the following computer models:

BAHM	HEC-HMS	MIKE URBAN
FESWMS	HEC-RAS	MOUSE
HEC-1	HIVEL2D	SMS
HEC-2	HSPF	TR-55
HEC-6	Hydraflow	WMS
HEC-FFA	-	

GIS Capabilities

Balance Hydrologic uses ArcGIS 9.3 (ArcView and Spatial Analyst) and employs a full-time GIS specialist for help realize the potential of this set of tools. Most projects include a GIS component and, as such, our staff have a great deal of experience in GIS applications.

Registrations

Balance staff consists of experienced professionals registered in California and a number of other western states in a number of disciplines, including:

- Certified engineering geologists
- Registered civil engineers
- Registered geologists
- Certified hydrogeologists
- Registered environmental assessors.

Additionally, Balance staff have earned accepted certifications by professional societies:

- Certified professional in erosion and sediment control (CPESC)
- Certified professional in storm water quality (CPSWQ)
- Certified floodplain manager

Our staff also includes specialists in meteorology, agricultural hydrology, and image interpretation to complement restoration specialists, wetland designers, and ecologists from other firms.

SUMMARY OF STAFF BACKGROUNDS

Shawn Chartrand PG, CEG, Principal Geologist/Geomorphologist

Mr. Chartrand will serve as the senior reviewer for the hydrogeologic assessment and evaluation of potential hydrologic effects of the project on local seeps, wetlands and stream channels. He has a broad range of experience: (a) working with aggregate and "hard rock" quarries to monitor their impacts on surface and subsurface resources; (b) assessing channel stability, with emphasis on streams with aquatic resources; (c) evaluating sediment sources, and developing approaches and costs for their repair; and (d) conducting numerical analyses and modeling of sediment transport. Mr. Chartrand also investigates the hydrology of karst and volcanic aquifers, and designs channel restoration plans following disturbance. , and monitors their reconstruction, including channels up to 2 miles long built at costs of up to \$15,000,000. He is presently leading an assessment of cumulative effects of, and potential mitigation measures for, small operating pits on the upper Salinas River for San Luis Obispo County and cooperating producers. Mr. Chartrand is a registered geologist and a certified engineering geologist in California.

Chris White, REA, Principal Water Quality Specialist,

Mr. White will serve as the principal-in-charge, project manager and senior reviewer for the EIR hydrology and water quality chapter. With Balance since 1991, Mr. White leads the firm's CEQA practice is experienced in preparation of technical documents for CEQA compliance, having contributed to or managed assessments at more than 40 sites in northern California where stream channels, ponds and/or wetlands abut areas proposed for development. He is a broadly-trained hydrologist with specialized expertise in the planning and design of best management practices for stormwater quality control. He has prepared CEQA evaluations of reclamation plans for aggregate mining operations on Cache Creek (Yolo County) and recently led preparation of the Hydrology chapter for the Rockville Trails Estates EIR (Solano County). Other recent projects include the Hydrology chapters for the North Chico Retail and Annexation Specific Plan EIR and the Meriam Park Mixed-Use Project EIR, both in Chico (Butte County), and the City of Ione's wastewater master plan (Amador County). Since 2005, Mr. White has managed Balance's Auburn office. He is a Registered Environmental Assessor in California.

Dave Shaw, PG, Geologist/Hydrologist

Mr. Shaw investigates wetland areas, groundwater and stream systems through watershed analysis and monitoring. With academic experience in geology, hydrology, landscape design, and planning, Mr. Shaw has developed and implemented basin-wide studies to evaluate and characterize interactions between surface and groundwater, water-quality trends, and landscape history and geomorphic processes which influence channel and wetland form. These quantitative assessments are used to aid in habitat conservation planning and wetland and channel restoration design, including analysis of conceptual design and management alternatives, development of restoration plans and specifications, construction observation, and post-project monitoring. He led the mitigation planning effort as part of Balance's contributions to the Pilarcitos Quarry EIR for San Mateo County. He has been with Balance Hydrologics for over 10 years, and manages Balance's Truckee Office. Mr. Shaw is a California-registered geologist.

Eric Riedner, PE, Civil/Hydrologic Engineer

Mr. Riedner, who has been with Balance since 2002 and frequently works with Mr. White on CEQA assessments, will serve as the senior reviewer for engineering and drainage aspects of the CEQA review. He applies his engineering background to measuring and simulating flood flows, scour, runoff and sediment transport and retention. His expertise extends to floodplain mapping, planning and habitat restoration in wetland, riparian, and tidally-influenced environments. He specializes in computer simulation of complex environmental hydraulics problems, with a particular emphasis on multi-dimensional, non-steady state and continuous-simulation situations. Mr. Riedner is a California -registered professional engineer.

Kathleen Thompson, PE, Civil Engineer/GIS specialist

Ms. Thompson will review and assess proposed drainage designs and measures to address stormwater management and erosion and sediment control measures. She is an experienced modeler of stream and wetland systems, often in a GIS base utilizing the HEC and HEC-geo series of models. She is able to use this platform to communicate very effectively with clients and professionals in other fields. Prior to joining Balance in February 2007, Ms. Thompson was a lead modeler in the planning division of the Corps of Engineers' San Francisco District working on multipurpose ecosystem restoration and flood mitigation projects. She is a California-registered civil engineer.

Selected Project Experience: CEQA for Hard Rock Quarries

Felton Quarry Drainage and Sediment Control Study, Erosion Control Plan, and Reclamation Planning, Santa Cruz County, California



As part of permitting for a major expansion of this hard-rock quarry, Balance hydrologists and geologists prepared a detailed report on the effects of existing operations on the quality and quantity of downstream groundwater bodies and surface waters. Manganese, iron and sulfate budgets for the quarry and the receiving streams were prepared to address elevated levels in adjoining streams and wells. Alternative control measures for minimizing any adverse impacts were also evaluated and

recommendations for proper mining and reclamation of the quarry area were developed. As a result of these studies, requirements for manganese and pH control were altered.

Balance staff members subsequently assisted the project designer in phasing the reforestation and reclamation programs. Drainage plans were realigned to improve the reliability of sediment control at equivalent expense. Detailed erosion control plans were then developed, including runoff and sediment routing, plus the design of two sediment detention basins. A continuously-recording stream gage and turbidity monitoring were initiated.

Pilarcitos Quarry EIR, Half Moon Bay, San Mateo County, California

San Mateo County is the lead agency for environmental review of the proposed expansion of



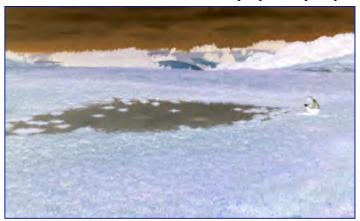
Pilarcitos Quarry, located in the Nuff Creek subwatershed of Pilarcitos Creek. As currently proposed, the expansion would mine a significant portion of the 1.1 square mile watershed of Nuff Creek, focusing on the lateral granitic ridges. These ridges are deeply weathered and provide ground-water storage for seeps and springs supporting dry-season baseflow in Nuff Creek. As part of the CEQA team, Balance staff is providing hydrologic and hydrogeologic expertise to develop potential mining alternatives and

recommend a viable mine reclamation plan. Channel restoration of the lower reach of Nuff Creek, which is currently culverted through the existing mining area, is an important element of the plan, as are sediment control and assessment of potential opportunities to store additional water in the watershed to augment baseflow in Pescadero Creek.

Roblar Quarry EIR, Sonoma County, California

Balance Hydrologics staff, supporting an EIR for the County of Sonoma, conducted an intensive investigation of this proposed hard-rock quarry near Cotati. The site is located on a ridge that is the headwaters for Estero Americano, a sensitive habitat. The proposed quarry

adjoins a closed landfill; with a floor 100 feet deeper than the landfill, the mining operation could potentially accelerate movement of leachate into the surface-water system. Balance conducted a careful analysis of likely leachate flow paths, and will help evaluate the potential for altered flow based on a combination of reviewing prior work by others, field work and modeling.



Garlock Pit EIR, Kern County, California



As part of an EIR for the County of Kern, Balance assisted a statewide planning firm with technical reviews of studies on the surface hydrology, slope stability and hydraulics of the proposed Garlock Pit aggregate quarry. The 300-foot deep quarry site occupies 400 acres of alluvial fan in the northern Mojave Desert along the southern flank of the El Paso Mountains near Koehn Lake. The Garlock fault, one of California's largest, runs through the site. Balance staff were responsible for reviewing ground-water and slope-stability reports submitted by the

applicant, and for evaluating the stability of large fan channels which cross major utility, gastransmission lines, and a railroad next to the site. In the field, we identified and documented a 220-foot difference in ground-water levels across the Garlock fault not previously considered in site design, and suggested design approaches intended to preclude the single pit filling with water 200 feet deep. We also recommended relocation of one of the peripheral drainage ditches to a location where continuous hardpan precludes channel incision at the railroad.

BCRCONSULTING ARCHAEOLOGY HISTORIC PRESERVATION PALEONTOLOGY

DAVID BRUNZELL, M.A., RPA

Owner/Principal Investigator

Brunzell Cultural Resource Consulting

440 West 7th Street

Claremont, California 91711

909/525-7078

dbrunzell@bcrconsulting.net

EXPERTISE

Cultural Resource Project Management

National Environmental Policy Act Cultural Resource Compliance

California Environmental Quality Act Cultural Resource Compliance

National Historic Preservation Act (NHPA) Section 106 Compliance

Government Agency (Federal/State/Regional) Partnering, Streamlining, and Consultation

Preliminary Environmental Assessment Coordination (i.e. Caltrans PEAR/PES)

Technical Report Writing for Archaeology, History, and Architectural History

NRHP/CRHR Evaluation of Pre/historic Archaeological, and Historic Architectural Resources

Preparation of all DPR523 Site Records

Archaeological, Historical, and Architectural History Research

Archaeological Excavation

Archaeological Survey

Architectural Survey

Lithic and Ground Stone Analysis

Global Positioning Systems / Archaeological Mapping and Orienteering

Fossil Preparation

Laboratory Analysis

California SB 18 Native American Consultation

University/College Instruction: Anthropology, Archaeology, Architectural Evaluation

EDUCATION

California State University, Fullerton, M.A. Anthropology/Archaeology, 2002

Master's Degree Thesis Project: A Phase I Cultural Resources Investigation and CRHR Architectural Evaluation of the Marymount College Campus in the City of Rancho Palos Verdes, Los Angeles County, California

California State University, Fullerton, B.A. Anthropology, 1997

Pomona College Field School, Southern Oregon/Northern California, 1995

Table A. Employment

Employment Date Range	Position Title	Total Duration of Employment
2002-10	Owner and Principal Investigator. Brunzell Cultural Resource Consulting (Supervisory Position).	8 Years
2004-08	Senior Cultural Resource Project Manager/Archaeologist. LSA Associates, Inc., Riverside, California (Supervisory Position)	3 Years, 10 Months
2004-07	Adjunct Faculty. University of La Verne, La Verne, California	3 Years (part-time)
2004	Adjunct Faculty. Community College of Southern Nevada. 2004.	6 Months (part-time)
2003-04	Archaeological Project Manager. SWCA Environmental, Las Vegas, Nevada. 2003 to 2004 (Supervisory Position).	1 Year, 2 Months
2003	Archaeological Crew Chief. Colorado State University Center for Environmental Management of Military Lands (CEMML), Fort Greeley, Alaska. 2003 (Supervisory Position).	4 Months
2002	Archaeological Crew Chief (GS-9). Hammond Post Fire Assessment, Manti La Sal National Forest, Utah (Supervisory Position).	4 Months
1996-2002	Archaeological Field Technician/Field Director/Associate. McKenna et al., Whittier, California (Supervisory Position after 1998).	5 Years
1999-2000	Archaeological/Paleontological Crew Chief. Keith Companies, Costa Mesa, California (Supervisory Position).	4 Months
1999	Anthropological Internship. Department of Anthropology, California State University, Fullerton (academic credit earned while employed at McKenna et al.).	4 Months
1995	Archaeological Research Assistant. Siskiyou County, Oregon, with the BLM and Pomona College Field School, Claremont, California.	2 Months

RELEVANT PROJECT EXPERIENCE

A number of projects have been selected here to demonstrate Mr. Brunzell's adherence to Professional Qualifications of the Secretary of Interior Standards for the fields of History, Archaeology, and Architectural History, as defined in the PQS. Mr. Brunzell served as project manager and first author for each project, except as indicated by*=co-author/field director, **=contributing author/field director, or ***=crew chief/field director. Table B shows time spent on prehistoric or historic archaeology or history related projects, indicated to the right of the project title. Totals are at the bottom. Table C shows time spent on architectural history projects using a similar format. Additional project experience will be provided upon request.

Year	Project Title (Project Duration)	Prehistoric Archaeology	Historic Archaeology	History
2008	Cultural Resource Monitoring of the Temecula 32 Project, City of Temecula, Riverside County, California (3 Months)	3 Months	N/A	N/A
2008	Cultural Resource Assessment and Significance Evaluations at the Hacienda at Fairview Valley Specific Plan Project, San Bernardino County, California (3 Months)	1 Month	1 Month	1 Month
2007	Cultural Resource Assessment/Evaluations of the Majestic Hills Specific Plan, San Bernardino County, California (4 Months, 2 Weeks; see Also Architectural Survey Section)	2 Months	1 Month	1 Month
2007	Archaeological Survey Report for the Mid County Parkway, Riverside County, California (2 Months)**	2 Months	N/A	N/A
2007	Draft Archaeological Survey Report of the Needles Highway Improvements Project, Needles and Unincorporated Portions of San Bernardino County, California, Bureau of Land Management Lake Havasu Field Office, Arizona Jurisdiction (4 Months)	2 Months	1 Month	1 Month
2007	Cultural Resource Test Excavations of the Temecula 32 Project, City of Temecula, Riverside County, California (2 Weeks)	1 Week	N/A	1 Week
2007	Cultural Resources Assessment Box Springs Road Apartment Project, Moreno Valley, Riverside County, California (2 Weeks)	1 Week	N/A	1 Week
2006	Cultural Resource Assessment/Significance Evaluations, Murrieta Hills S.P., Murrieta, Riverside County, California (3 Months)	1 Month	1 Month	1 Month
2006	Cultural Resource Assessment and Significance of the Skyward I Project, California City, Kern County, California (3 Months)	2 Months	N/A	1 Month
2006	Cultural Resource Assessment of the Topaz Ranchero Project, City of Hesperia, San Bernardino County, California (3 Weeks)	1 Week	1 Week	1 Week
2006	Cultural Resource Assessment and Significance Evaluations of the Deutsch Property Specific Plan, City of Banning, Riverside County, California (2 Months)	N/A	1 Month	1 Month
2006	Cultural Resource Assessment of the Jacqueline Cochran Regional Airport, Community of Thermal, Unincorporated Riverside County, California (12 Weeks)	2 Weeks	2 Weeks	2 Weeks
2006	Evaluation of Prehistoric Resources Within the Jacqueline Cochran Regional Airport, Community of Thermal, Unincorporated Riverside County, California (2 Weeks)	2 Weeks	N/A	N/A
2006	Cultural Resource Assessment of the Simi Village Project, City of Simi Valley, Ventura County, California (3 Weeks)	1 Week	1 Week	1 Week
2005	Cultural Resources Assessment Hospitality Center Project, City of San Bernardino, San Bernardino County, California (1 Month)	N/A	N/A	1 Month
2005	Cultural Resource Assessment and Excavations at Stoneridge Ranch Project, Moreno Valley, Riverside County, California (3 Months)	1 Month	1 Month	1 Month
2005	Cultural Resources Assessment, Archaeological Testing, and Evaluations of the Bridle Path and N. Point Projects (2 Months)	2 Weeks	2 Weeks	1 Month

Year	Project Title (Project Duration)	Prehistoric Archaeology	Historic Archaeology	History
2001	A Phase I Cultural Resources Investigation of the Point Happy Project, La Quinta, Riverside County, California (1 Month)**	N/A	2 Weeks	2 Weeks
2001	A Phase I Cultural Resources Investigation of the Milton Property in Hemet, Riverside County, California (1 Month)**	2 Weeks	1 Week	1 Week
2000	A Phase I Cultural Resources Survey of the Meadowview Golf Course, Temecula, Riverside County, California (1 Month)**	2 Weeks	1 Week	1 Week
1999	A Phase I Cultural Resources Investigation of "The Ranch" Project Located in the Community of La Quinta, Riverside County, California (3 Months)***	2 Months	N/A	1 Month
1999	A Phase I Prehistoric Cultural Resources Investigation of the Eastern Industry/Majestic Realty Project, City of Industry, Los Angeles, California (2 Months)**	1 Month	N/A	1 Month
	TOTALS	3 Years, 8 Months, 3 Weeks	1 Year, 3 Months	2 years, 1 Week

Table C. Selected Projects Showing Time Spent on Architectural History Projects

Year	Project Title	Survey, Evaluation and Research
2009	Cultural Resources Assessment and Evaluations East Los Angeles College (1 Month; see Also Table B)	2 Weeks
2009	Historic Building Evaluation of 925 52nd Street, Sacramento, California (1 Week)	1 Week
2009	Cultural Resources Assessment and Historic Architecture Evaluation, Campuses of Hayward Unified School District, Hayward, Alameda County, California (1 Month, see also Table B)	2 Weeks
2008	Cultural Resource Assessment and Architectural Evaluation for Ridgeline Equestrian Estates, City of Orange, Orange County, California	1 Month
2008	Proposal to Prepare Citywide Historic Context Statement and Reconnaissance Survey for the City of Napa, and Historic Context Statement and Detailed Property Survey for the Soscol Gateway/East Napa Neighborhood	2 Weeks
2007	Cultural Resources Monitoring Program: Architectural Demolition Monitoring of the Historic P.I. Market, Pismo Beach, San Luis Obispo County, California	2 Weeks
2007	Cultural Resource Assessment/Evaluations of the Majestic Hills Specific Plan, San Bernardino County, California	2 Weeks
2004	Research, Development, and Application of Archaeo-astronomy Course to Teach Architectural Survey Methods at Maya Sites in Honduras, Guatemala, and Belize, University of La Verne (<i>Course Core 340: Archaeoastronomy and Maya Cosmology</i>)	3 Months
2003	A Phase I Cultural Resources Inventory/ Significance Evaluations of the Whiskeytown National Recreation Area Fuel Treatment Units in Shasta County, California	1 Month
2003	Architectural Research and Review at Chichen Itza Maya Architectural Site, Mexico	1 Week



KARA BRUNZELL

Architectural Historian/Project Manager

EXPERTISE

Historic Preservation Planning
Grant Writing
Architectural/Historical Research
Government Agency Partnering, Streamlining, and Consultation
Excellent Written and Verbal Communication
Public Speaking and Professional Presenting to Large Groups
PC and Macintosh Computer Systems
Employee Supervision

EDUCATION

UCLA, Bachelor of Arts in History, 1988 CSU Sacramento, Master of Arts in Public History, 2009 Master's Thesis *Historic Preservation in Napa, California*

Continuing Education

California Preservation Foundation Workshop: Oakland, California, July 31, 2009

California Preservation Conference 2008: Napa, California, April 23-26, 2008.

California Preservation Foundation Workshop: Davis, California, February 12, 2008

PROFESSIONAL AFFILIATIONS, AWARDS, AND CERTIFICATIONS

2009	Grant Application, 2009-2010 CLG Grant Awarded, City of Napa, California
2009	Member, Napa County Landmarks
2008	Grant Application, 2008-2009 CLG Grant Awarded, City of Napa, California
2007-09	Member, Napa County Historical Society

PROFESSIONAL EXPERIENCE

BCR Consulting: Architectural Historian/Project Manager: April 2009-Present Duties include managing architectural history, historic preservation, and research projects, performing research and field work, coordinating BCR Consulting marketing efforts for the Napa office, conducting field work, and preparing business proposals.

City of Napa: February 2008-Present

Duties include assisting the planning department with historic preservation efforts, including acting as liaison with Cultural Heritage Commission and assisting consultant Page & Turnbull with Historic

PROFESSIONAL PROJECTS

2010	City of Napa, Planning Division: Historic Homes Workshops
2010	Heritage Napa Spencer's Addition and West Napa neighborhoods Intensive Level Survey, City of Napa, California.
2010	Cultural Resources Assessment and Historic Architecture Evaluation of Freeway Drive / Golden Gate Drive for federal paving project, City of Napa, California.
2009	Historic Renovation and Design Project of Victorian Residence, Napa, California
2009	Cultural Resources Assessment, Historic Architecture Evaluation, and DPR 523 forms of historic house in the East Sacramento neighborhood, City of Sacramento, California.
2009	Cultural Resources Assessment and Historic Architecture Evaluations of five Campuses within the Hayward Unified School District, Alameda County, California.
2009	Heritage Napa Historic Context Survey, City of Napa, California.
2009	City of Napa, Planning Division: Historic Homes Workshops
2009	Cultural Resource Assessment, Historic Architecture Evaluation, and Record Search of three historic houses in Lone Oak neighborhood, City of Napa, California.
2008-09	Heritage Napa Citywide Historic Context Statement.
2008	Cultural Resources Assessment, Historic Architecture Evaluation of historic house in Downtown Napa, City of Napa, California.

REFERENCES

Marlene Demery, P.E.
Interim Planning Manager
Community Development Department
Planning Division
1600 First Street
Napa, CA 94559
707/257-8347
mdemery@cityofnapa.org

MeHee Hyun, Ph.D. Core Faculty, BA Program in Liberal Studies Antioch University Los Angeles 400 Corporate Pointe Culver City, CA 90230 310/578-1080, x101

Patrick Ettinger, Ph.D.
Associate Professor
Assistant Director, Capital Campus Oral History Program
Department of History
6000 J Street
Sacramento, CA 95819-6059
916/278-6589
ettinger@csus.edu

SWCA - Archaeologist/Paleo-Monitor, 2002

Duties: excavation, monitoring, casting paleo-artifacts on site, and sorted prehistoric artifacts for projects Harveston Development Temecula, CA and Talega Development San Clemente, CA.

CRM TECH - Archaeologist, 2001-2003

Duties: survey, monitor, map, data entry, site record searches, cultural research, analyze, catalogue prehistoric/historical artifacts (glass items, metal, lithic and ceramics), type reports and site records. Project locations: Indio, La Quinta, Coachella, Riverside, Winchester, Menifee, and Corona. Tribes on projects were Cahuilla, Soboba and Pechanga.

Archaeological Research Unit - Archaeologist, University of California, Riverside, 1998-2002 Duties: survey (used GPS technology), excavation and cataloging.

Eastern Information Center (part of the California Historical Resources Information System [CHRIS] and of the Office of Historic Preservation [OHP]), University of California, Riverside - Main Information Officer, 1998-2001

Duties: Record searches, cultural research, photocopies, fax, type letters to clients, answer the phone-lines, providing information to clients in person and via telephone, file maps and site records (numerical and alphabetical order). Participation in CHRIS/IC meetings discussing administrative tasks, policies, operations, and budget.

Joshua Tree National Park - Archaeologist, 2001

Duties: Field reconnaissance, survey, and monitoring fire affected areas within the park.

TEACHING EXPERIENCE

June-July 2000 and June-August 2001

Summer Institute Archaeology Program. Teaching Assistant: Assisted in constructing an archaeological site, taught high school students field methods, cataloging, aided with their report writings, and graded assignments.

COMPUTER EXPERIENCE

Word Processors: Microsoft Windows 1995, 1997, 2000, 2007, NT, Word Perfect 5.0 and 9.0, Macintosh Windows 1997. Graphics: Adobe Workshop 6.0, Photoshop 4.0 and 6.0, Corel Photo-Paint 9, Microsoft-Visio. Database: MS Dos for Windows and ACCESS (minimal experience). Spreadsheet: Excel.



Hans D. Giroux Senior Analyst

EDUCATION

Bachelor of Arts in German Literature, University of California, 1965.

Bachelor of Science in Meteorology, University of Utah, 1966.

Graduate studies in Meteorology, University of Wisconsin, 1967-68.

Masters of Science in Meteorology, UCLA. 1972.

Candidacy for Doctorate in Meteorology, UCLA. 1974.

PROFESSIONAL EXPERIENCE

Weather Forecaster, U.S. Air Force, Truax AFB, Madison, WI, 1966-67.

Staff Weather Officer/Chief Forecaster, McChord AFB, WA, 1968-69.

Teaching Assistant, Basic Meteorology/Advanced Dynamics, UCLA. 1969-71.

Research Assistant, California Marine Layer Structure, UCLA, 1971.

Research Assistant, Remote Air Pollution by Satellites, UCLA, 1972.

Research Assistant, Climatic Change - Aircraft Pollution, UCLA, 1973.

Instructor, Basic Meteorology, Cal State Northridge, 1972-74.

Air Pollution Meteorologist, S-Cubed, LaJolla, CA 1973-75.

Senior Meteorologist, Meteorology Research, Inc., Altadena, CA 1975-77.

Instructor, Weather for Flight Aircrews, Orange Coast College, 1976.

Instructor, Basic Meteorology, Golden West Community College, 1976-81.

Instructor, Basic Meteorology, Orange Coast College, 1977-81.

Consultant, Atmospheric Impact Processes, Irvine, CA, 1977-present.

Professional Responsibilities

Military: Performed operational weather forecasting for jet aircrews; trained new personnel; responsible for ground safety, security, records administration, quality control, forecasting methodology research, and liaison with other base units; air defense battle staff weather officer; and deputy detachment commander.

University: Conducted laboratory sessions; instructed students in the use of meteorological instrumentation; demonstrated weather analysis techniques; supervised student weather observation programs; gave lectures and tests.

Private:

Air Quality: Prepared air quality impact assessments for coal-fired, oil-fired, nuclear geothermal and wind energy power generation systems; prepared impact assessments for transportation systems, industrial emissions sources, wastewater treatment plants, landfills, toxic disposal sites, oil processing facilities, mining operations, commercial, residential, institutional and recreational land uses, airports and harbors; conducted atmospheric gas tracer experiments; developed numerical airflow analyses; and conducted numerous meteorological and air quality data acquisition programs with a very strong emphasis in arid environments, geothermal development, odors and nuisance and in regional pollution impacts from Southern California urbanization.

Noise: Developed impact assessments for roadways sources, construction equipment, sand and gravel plants, wineries, industrial equipment, gas recovery plants, railroads, recreational activities and oil refineries; monitored ambient noise levels from above sources, calibrated highway traffic noise model (FHWA-RD-77-108), and calculated sensitive receptor noise exposures; wrote community noise ordinances, purchased monitoring equipment and trained city staff; performed noise mitigation studies including barrier design, location, equipment noise control, and residential building retrofits.

Professional References

Dr. Don B. Blumenthal, President, Sonoma Technology, Inc.

Mr. Tom J. Lockhart, CCM, Meteor. Standards Institute

Ms. Sylvia Salenius, Director, Env. Studies, P&D Technologies

Mr. Mike Tolmasoff, Director, No. Sonoma County APCD

Mr. Harry Dillon, Deputy Director, Imperial County APCD

Dr. Alan Eschenroeder, President, Alanova, Inc.

Mr. Ken R. Richards, Senior Engineer, Consoer-Townsend Assoc.

Mr. John Ledbetter. City of Berkeley Planning Dept.

Ms. Barbara Reid, City of Chula Vista Planning Dept.

MINING PROJECTS - performed on-site data acquisition, prepared emissions off-set (trade-off) and PSD increment analyses, prepared permit support data, including dispersion modeling, wrote EIRs/EISs - conducted noise monitoring for extraction, processing and hauling of aggregate materials. Mining project experience includes:

- . Border Highlands Gravel Extraction Site Impact Study, San Diego, CA
- . Hester Granite Ready Mix/Asphalt Hot Plant Impact Study, El Cajon, CA
- . Beaumont Concrete Quarry Expansion EIR, Cabazon, CA
- . Cushenbury Quarry Master Plan EIR, San Bernardino County, CA
- . Cal-Mat Quarry Master Plan EIR, Jamul, CA
- . Cal-Mat Quarry CUP Noise Monitoring, Fresno County, CA
- . Daley Quarry Master Plan EIR, San Diego County, CA
- . Padre Transit Mix Quarry Expansion EIR, Poway, CA
- . Plunge Creek Quarry Master Plan, Highland, CA
- . Mescal Creek Master Plan EIR, Antelope Valley, CA
- . Cajon Creek Rock Processing Plant, San Bernardino County, CA
- . Agua Dulce Mineral Extraction & Processing, North Los Angeles County, CA
- . Wilson Creek Sand Mining Operation, Riverside County, CA
- . Dutra Quarry Nuisance Lawsuit Monitoring, San Rafael, CA
- . Grimes Canyon Master Plan (3 operators), Ventura County, CA
- . Chandler Aggregates Quarry Noise Impact Study, Riverside County
- . Kings River Aggregates Master Plan, Fresno County, CA
- . Service Rock Palmdale Quarry Expansion, Palmdale, CA
- . Granite Quarry Master Plan EIR, 29 Palms, CA
- . Vulcan Quarry Noise Compliance Study, Poway, CA
- . Hi-Grade Materials Quarry Expansion, Lucerne, CA
- . Service Rock Plant Expansion, Mojave, CA
- . 75th Street (Pusic) Quarry Expansion, Palmdale, CA
- . Snow White Pumice Mine Reactivation, Hinckley, CA
- . Granite Stuckey's I-15 Borrow Pit, Barstow, CA
- . Alberhill Southwest Shale Mine Expansion, Lake Elsinore, CA
- Sakaida Mining Project, Los Angeles, CA
- Vulcan Mine Westward Expansion Noise & Blasting Vibration, Azusa, CA

KENNETH WILSON

Principal Engineering Geologist

EDUCATION

University of California at Riverside, B.S. Geological Sciences, 1967 University of California at Riverside, M.S. Geological Sciences, 1972

PROFESSIONAL REGISTRATIONS

Registered Geologist, California, #3175 Certified Engineering Geologist, California, #928

PROFESSIONAL SUMMARY

Kenneth Wilson is responsible for management, technical supervision and performance of engineering geology, geotechnical, environmental impact, and environmental geology projects, and is a Registered Geologist (#3175) and Certified Engineering Geologist (#928) in California. He performs and supervises environmental assessments for commercial, industrial and government projects covering the disciplines of hydrogeology, engineering geology, geology, hydrology, seismicity, tectonics, faulting, mineral resources, and waste management. Geotechnical studies include fault evaluations, ground failure assessments, slope stability and foundation materials characterization, liquefaction potential, flooding hazards and site selection. The emphasis of his work is on defining geologic and geotechnical conditions, and hazards, which may affect the feasibility and design of any type of development project. Mr. Wilson has over 30 years of technical performance and project experience in critical facilities studies, radioactive/mixed/hazardous waste management, energy plant site licensing, impacts to surface and groundwater resources, waste disposal site development, dams and reservoirs, and numerous other engineered structures. Specialized experience is in engineering geology in support of geotechnical studies, site selection/evaluation, seismic safety, integration of multidisciplinary technical teams, project management, and EIRs, EAs, and EISs. Representative Project Experience lists are available as Addenda to this resume.

PROFESSIONAL EXPERIENCE

Wilson Geosciences, Engineering and Environmental Geology [1989-Present]

<u>Principal Engineering Geologist:</u> Responsible for all management, technical and marketing activities for engineering geology, urban planning, environmental impact, and environmental geology projects. Performs and supervises environmental assessments for commercial, industrial and government projects covering the disciplines of hydrogeology, engineering geology, geology, hydrology, seismicity, tectonics, faulting, mineral resources, and waste management. Geotechnical studies include fault evaluations, ground failure assessments, slope stability and foundation materials characterization, liquefaction potential, flooding hazards and site selection.

The Earth Technology Corporation [1974-1989]

<u>Corporate Vice President</u>: Mr. Wilson worked from late-1987 to mid-1989 for the Chairman/CEO and the President/COO performing the following tasks: assisting in evaluation of several potential acquisitions; management of pre-acquisition due diligence; evaluation of four new office geographic expansion options; managed preparation of corporate health and safety program and H/S technical procedures. In 1989 was principal-in-charge for start-up of environmental engineering and hydrogeology portion of Technical Assistance Contract with DOE/Nevada Operations, Environmental Safety and Health Branch; task areas included quality assurance, geohydrologic assessments, defense waste management, geohydrology, environmental restoration program and environmental compliance.

<u>Vice President; Director, Program Management</u>: Mr. Wilson reported to the President of the Western Division (1985-1987) and was responsible for business development, project execution and strategic planning for market areas related to radioactive (high, mixed, and low-level) waste management programs, energy and mineral resources, geophysics and offshore technology. Emphasis was on geoscience, engineering, environmental, and program management disciplines

for site selection, site evaluation/characterization, site remediation and specialized advanced technology considerations in hydrologic modeling, rock mechanics testing and geophysical exploration. Directed and supervised preparation of proposals for large government programs (e.g. California Low-Level Waste Site Development Contractor, Grand Junction Project Office Management Contract, Southern Region Geologic Project Manager, DOE Salt Project-Technical and Field Services Contract).

<u>Vice President, Associate and Senior Manager</u>: Mr. Wilson had numerous challenging technical and management responsibilities and assignments during the period 1974-1988, many of which are summarized in available REPRESENTATIVE PROJECT EXPERIENCE addenda. There was a wide range of projects for which he had a technical role, either performance, supervisory, or management in scope. A substantial portion of the time he was involved in the Missile-X (MX) ICBM, Siting and Characterization Studies in the Western and Midwestern United States: for United States Air Force, Ballistic Missile Office, and the Southern Region Geologic Project Manager (SRGPM) in Mississippi, Louisiana, Texas, Georgia, South Carolina, Virginia, Maryland for Office of Nuclear Waste Isolation (ONWI) and Office of Crystalline Repository Development (OCRD). These projects were national in scope and involved most geologic, geotechnical, geophysical, environmental, and hydrologic disciplines, with multi-year contract values in the \$30 to 70 million dollar range.

Converse Consultants (formerly Converse, Davis and Associates) [1970-1974]

Staff and Project Geologist: Conducted and supervised investigations in southern, central, and northern California, southern Nevada, and eastern Washington. Groundwater and related studies included permeability, transmissibility, and storage coefficient studies at Searles Lake, California; earth dam projects at Yucaipa, Littlerock, and Anaheim, California; groundwater contamination (hydrocarbons) evaluation in the Glendale, California area; wastewater and water treatment facilities in Solvang, Lompoc, Victorville, Thousand Oaks, and Sylmar, California. Numerous earthquake and fault risk studies were performed for earth dams and reservoirs, high-and low-rise buildings, hospitals and schools, proposed nuclear power plant sites, water storage tanks, and large-diameter pipelines. Landslide and other slope failure studies were performed in rock and soil terrains. Offshore studies planned and conducted include coastal geophysical (seismic reflection, side scan sonar, fathometer), sampling and scuba investigations near Monterey and Dana Point, California.

Performed geologic, hydrologic, drilling, geophysical, faulting and earthquake evaluations (both field and office-based) for two potential and two existing nuclear power plant sites. Field evaluations included mapping, trenching, drilling, detailed logging, age-dating, technical analyses, and report preparation. Geologic environments ranged from arid deserts (California and Washington) to humid coastal (California).

PROFESSIONAL ORGANIZATIONS

- Member Association of Engineering Geologist, National Section
- Member Association of Engineering Geologist, Southern California Section
- Member American Geophysical Union

COURSES, SEMINARS, AND WORKSHOPS

- Seismic Interpretation for Geologists, by the Oil and Gas Consultants International, Inc., Intensive Short Course, Houston, Texas
- Engineering Geophysics Short Course, Colorado School of Mines, Office of Continuing Education, Golden, Colorado
- Fundamentals of Ground-Water Monitoring Well Design, Construction, and Development, Las Vegas, Nevada
- Field Practices for Collecting Representative Ground-Water Samples, Las Vegas, Nevada
- New Developments in Earthquake Ground Motion Estimation and Implications for Engineering Design Practice, Seminar organized by Applied Technology Council and funded by U.S. Geological Survey, Los Angeles, California
- Seismic Hazards Analysis, Course sponsored by Association of Engineering Geologists, Los Angeles, California

GENERAL TYPE OF WORK PERFORMED BY WILSON GEOSCIENCES INC.

Wilson Geosciences, Inc. (WGI) was organized in 1989 and specializes in many areas of geologic and engineering geology services. WGI staff and associates have extensive experience in geology, hydrogeology, and soils engineering studies. WGI is committed to providing timely and reliable environmental impact and related geologic services. We provide client interface, project management, and technical guidance and review, as well as interface with regulatory agencies.

WGI has performed geologic and engineering geologic studies for planning, permitting, design, and construction projects primarily in southern and central California, as well as portions of northern California. Kenneth Wilson, as principal geologist, has more than 35 years of experience in performing various sizes, and complex and/or routine investigations in the region. He are directly involved in each project on a day-to-day basis to ensure that each client and their project receives the attention necessary to carry it successfully from inception to completion by maintaining budget, schedule, and technical goals.

The specific geologic and engineering geologic services offered by WGI are:

- Engineering Geology
- Fault Activity Assessments
- Environmental Impact Analysis
- Hydrogeology and Groundwater Studies
- Site/Route Selection and Characterization
- Railroad and Pipeline Risk Assessments

Wilson Geosciences works with other firms in the southern California area to offer broader services for geotechnical characterization, planning, design, construction, and special evaluations for site screening and site selection projects. These additional projects are in the following categories:

- Soil and Foundation Engineering
- Earthquake Engineering and Seismic Evaluations
- Liquefaction Analysis
- Field and Construction Monitoring, Instrumentation, and Testing
- Geotechnical Research
- Probabilistic Risk and Consequence Analysis

As our experience relates to the New Community Plans and Additional Environmental Services we would (a) prepare specialty studies in engineering geology, geology, and any of the categories listed above, (b) prepare a full technical background report for one or more Community Plan areas, and (c) prepare the Geology and Soils portion of an environmental document (e.g., EIR, IS, MND).

EXPERIENCE COMPLETING STUDIES (1) AS A PART OF EIR PROJECTS AND (2) IN LOS ANGELES

Mr. Wilson's first environmental document was completed in 1974 for expansion at LAX. Since 1989 he was worked on well over 100 environmental studies and reports. Substantial studies conducted in Los Angeles during that time for planning and environmental firms include:

- Bonelli Park
- Los Angeles Framework Plan
- El Pueblo de Los Angeles
- Little Tokyo
- Playa del Rey SCGC Gas Storage

- Union Station
- Hollywood Bowl
- Grand Avenue Redevelopment
- West Los Angeles College

Since 2003 WGI has supported environmental studies conducted by LAUSD through its on-call contractors. The work has consisted of geologic hazards evaluations, hazardous pipeline risk assessments, and railroad risk assessment throughout the City. Some 32 separate projects were completed as follows (SR = South Region and CR = Central Region):

Client: Jeff Harvey, Harvey-Meyerhoff Consulting Group, LLC, Sacramento, California 916-799-6065, harvey-jeff@sbcglobal.net.

Project Description: The EIR describes the geology and soils of the Irwindale area and the greater southern California region, but focused on geological issues, including seismicity/ground shaking, slope stability, liquefaction, subsidence, geotechnical characteristics, and expansive soils associated with mining operations at Vulcan Materials Company (Vulcan) Durbin Quarry, Reliance I Quarry, and Reliance II Landfill. The section identified applicable laws, ordinances, regulations, and standards (LORS) related to mining operations and reclamation planning. Measures required in order to minimize potential geologic and soil impacts were also identified.

-- Complete Technical Studies Related to General Plan Safety Element

City of Arcadia General Plan Update—Geology and Soils Technical Background Report

Client: Laura Stetson, Hogle-Ireland, 201 South Lake Avenue, Suite 308, Pasadena, CA 91101, 626-356-4460 (v), 626-356-4464 (f), www.hogleireland.com.

Project Description: WGI prepared the Geology and Soils Technical Background Report for the City of Arcadia General Plan Update. The City general geologic and seismic conditions compare with the City of Los Angeles being located along the southern slope of the Transverse Ranges, being susceptible to large earthquakes from thrust, strike-slip, and blind faults. All geologic hazards were evaluated with respect to the potential impacts on the city in general and on critical, essential, and high-population facilities specifically. New hazard zones were recommended in areas where new studies and information suggested the potential for adverse geologic conditions.

-- Complete Other Tasks Needed for CEQA Compliance

City of Los Angeles— Technical Report: Fault Investigation--Proposed Stonebridge Estates Development Site, 12400 Big Tujunga Canyon Road, City Of Los Angeles, California

Client: Kevin Armstrong, KD Partners, 525 E. Colorado Boulevard, Suite 300, Pasadena, California 91101, 626-440-8288 (v), 626-609-2359 (f), kevin.armstrong@kdpartners.com.

Project Description: The client proposed a residential development on part of 112-acres located along the southeast side of Big Tujunga Canyon Road in Tujunga (City of Los Angeles), California. This study was conducted as technical support to the preparation of an environmental impact report for the proposed development. Due to the presence of published mapping of geological faults, a City Fault Rupture Hazard Area, and an Alquist-Priolo Earthquake Fault Zone (APEFZ) within the property limits, WGI was engaged to determine the location and potential ground surface rupture of the Lakeview and Rowley faults, mapped by others within portions of the Site. Approximately 2800 feet of exploratory trenches were positioned around the north, west, and south portions of the Site to determine if subsurface evidence was present for the reported faults. Specifically, it was to determine if (a) evidence exists for the Lakeview fault along the western edge of the Site and (b) any evidence exists for the various suggested locations of the Rowley fault. Results of the detailed geologic logging of the fault investigation exploratory trenches within the Site revealed no evidence of Holocene faulting.



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Interacta, Inc.

Interacta, Inc. is a visualization company focused on architectural visual studies and interactive models. Interacta reaches beyond basic photo simulations into dynamic and interactive presentations that allow all parties to view accurate representations of a proposed project in 3D to assist in the design and approval process. Interacta integrates aerial photography, survey plots, architectural drawings, and landscape plans to create 3D models for integration with on-site photography to bring a level of detail that cannot be achieved through traditional means.

Currently in their ninth year of business developing photo simulations, Interacta has been involved with multiple large development projects including the Marriott Residence Inn, Village at Los Carneros, Santa Barbara Ranch Development, and The Preserve at San Marcos. Interacta not only provided photographic simulations of the proposed developments but also helped identify optimum placement of buildings and screening trees to reduce the visual impacts of the projects. Interacta is customer focused and strives for customer satisfaction. Interacta has proven performance and capabilities that meet the technical challenges in developing the visual simulations for this project.

Biography

Ron Stevens, principal of Interacta, will direct all visual simulations work. He has completed numerous photo simulations including single family residences and large scale developments. Mr. Stevens uses the latest technology to develop accurate 3D site models used in photo simulations. In addition, Mr. Stevens has developed custom interactive computer based presentations using project site models to allow developers, planners and government agencies to perform drive-by and fly-through visualizations in real time. His most recent experience includes the Village at Los Carneros, Santa Barbara Ranch Development, and the Preserve at San Marcos in Santa Barbara County. Mr. Stevens is a Santa Barbara native and has a BSME from Cal Poly, San Luis Obispo. Mr. Stevens has been developing applied animation and computer graphics for more than 20 years. Prior to founding Interacta, he managed a training and multimedia group that developed virtual and augmented reality applications for military customers.

Contact

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RELEVANT PROJECT EXPERIENCE

Marriott Residence Inn

City of Goleta

Interacta developed 4 photographic simulations of the proposed 3 story Marriott Residence Inn for the City of Goleta. A video drive-by simulation was also developed to show the potential impact that the project may have to views of the Santa Ynez Mountains from Hollister Ave. The simulations were used for internal environmental analysis and as a tool to present the project to review boards. The project is currently in the approval process.

Village at Los Carneros

County of Santa Barbara

Interacta assisted the developers, planners and architects in the preparation of 4 photographic simulations and numerous model views for the 250+ residential units in nine multistory buildings. The development is on 16-acres of land adjacent to Highway 101 in Goleta. The project was approved.

Santa Barbara Ranch

County of Santa Barbara

Interacta assisted the developers, planners and architects in the preparation of 19 photographic simulations for 54 residential lots, an equestrian facility, and an agriculture support facility. The ranch subdivision is on 485-acre tract of land crossing Highway 101 North of Goleta. The development included dedicated open space and agricultural conservation easements. The project is currently in the approval process.

The Preserve at San Marcos

County of Santa Barbara

Interacta assisted the developers, planners and architects in the preparation of 15 photographic simulations for a 20-lot subdivision. The development is on 377-acre tract of East of Highway 154 at the base of San Marcos Pass near Highway 101 in Santa Barbara. The development included public open space and affordable homes. The project was approved.

Lake View Estates

Santa Clarita Valley

Interacta developed 2 photo simulations of the proposed development along Interstate I-5. The development included 70 residential lots and three commercial lots. The photo simulations focused on potential visual impacts to the ridgeline due to the extensive grading.

Santa Margarita Ranch

County of San Luis Obispo

Interacta prepared 3 photo simulations for an EIR firm for the proposed development along Highway 101 and Highway 58 near Santa Margarita. The development proposed 111 residential units. The photo simulations focused on potential visual impacts to the hillside. The project is currently in the review process.